Form 3160-3
(December 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1 a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] [X] OTHER - COALBED METHANE SINGLE ZONE [ ] MULTIPLE ZONE [ ]

5. LEASE DESIGNATION AND SERIAL NO.: ML 45805

6. IF INDIAN, ALLOTTEES OR TRIBE NAME:

2. NAME OF OPERATOR: ANADARKO PETROLEUM CORPORATION

7. UNIT AGREEMENT NAME:

3. ADDRESS AND TELEPHONE NO.: 17001 Northchase Drive, Houston, Texas 77060 281/875-1101

8. FARM OR LEASE NAME WELL NO.: Helper State A-1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface: 1621 FNL & 2019 FWL, NW Section 3, T14S R10E
At proposed prod. zone: 1621 FNL & 2019 FWL, NW Section 3, T14S R10E

9. API WELL NO.:

10. FIELD AND POOL OR WILDCAT: Helper CBM

11. SEC. T,R,M, OR BLK. AND SURVEY OR AREA: Section 3, T14S R10E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE.: 2 miles N of Price, Ut

12. COUNTY: Carbon

13. STATE: Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1621'

16. NO. OF ACRES IN LEASE: 2441'

17. NO. OF ACRES ASSIGNED TO THIS WELL.: 160

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE. FT.: 2000'

19. PROPOSED DEPTH: 2900'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6040' GR

22. APPROX. DATE WORK WILL START.: 1/28/97

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | GRADE, SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|---|---|---|---|---|
| 12 1/4" | 8 5/8" | 24 | 300' | 200 cu. ft. |
| 7 7/8" | 5 1/2" | 17 | 2900' | 300 cu. ft. |

Attached is the following:

1. Survey Plat
2. Drilling Plan with BOP Schematic.
3. Surface Use Plan.
4. Topo & Access Map & Area Map.
5. Pit & Pad Layout with cross sections of pit, pad, & rig layout.
6. Self-Certification of Operator.

The Cultural Resource Study will be submitted under separate cover.

IN ABOVE SPACE, DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED Dave Winchester TITLE D.R. Winchester Division Drilling Engineer DATE 1/15/97

(This space for Federal or State office use.)

PERMIT NO. 43-007-30369 APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations theron.
CONDITIONS OF APPROVAL IF ANY:

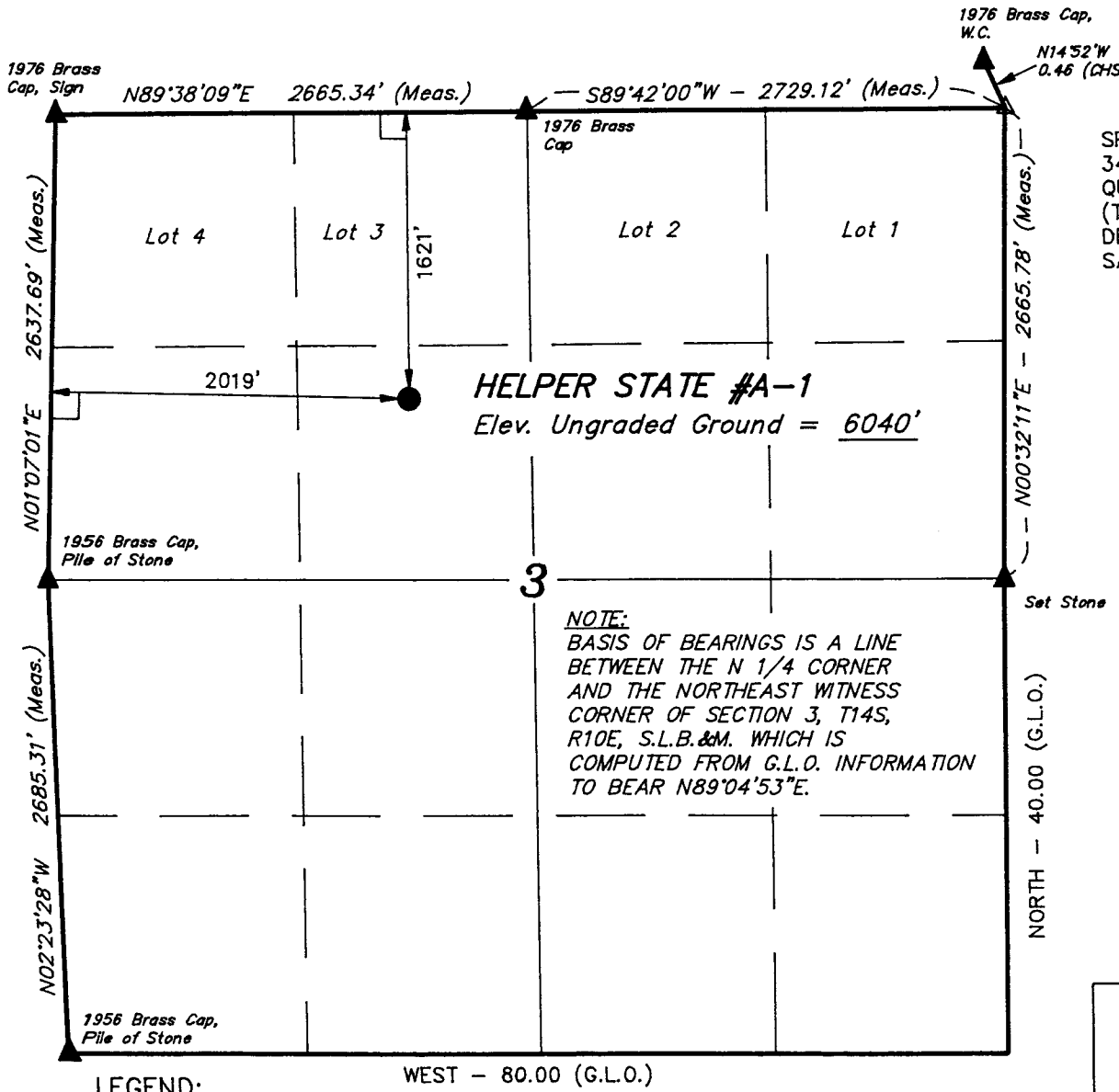
APPROVED BY John R. Baza TITLE Petroleum Engineer DATE 4/17/97

See Instructions On Reverse Side

# ANADARKO PETROLEUM CORP.

Well location, HELPER STATE #A-1, located as shown in the SE 1/4 NW 1/4 of Section 3, T14S, R10E, S.L.B.&M. Carbon County, Utah

## T14S, R10E, S.L.B.&M.



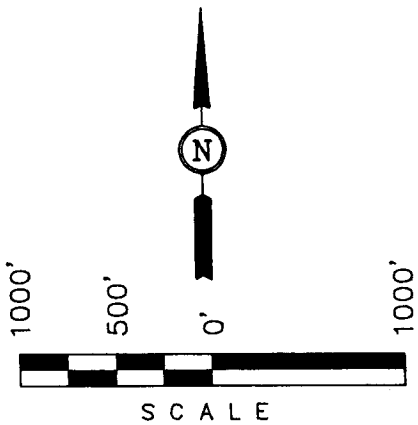

NOTE:
BASIS OF BEARINGS IS A LINE BETWEEN THE N 1/4 CORNER AND THE NORTHEAST WITNESS CORNER OF SECTION 3, T14S, R10E, S.L.B.&M. WHICH IS COMPUTED FROM G.L.O. INFORMATION TO BEAR N89°04'53"E.

LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = TRUE POSITION OF CORNER.

### BASIS OF ELEVATION

SPOT ELEVATION NEAR THE SOUTHEAST CORNER OF SECTION 34, T13S, R10E, S.L.B.&M. TAKEN FROM THE HELPER QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6350 FEET.




### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Kay

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH


UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017


| | | |
|---|---|---|
| SCALE: 1" = 1000' | DATE SURVEYED: 9-10-96 | DATE DRAWN: 9-18-96 |
| PARTY: L.D.T. K.S. C.B.T. | REFERENCES: G.L.O. PLAT | |
| WEATHER: COOL | FILE: ANADARKO PETROLEUM CORP. | |

# DRILLING PLAN
# TO ACCOMPANY APPLICATION FOR PERMIT TO DRILL

Company: Anadarko Petroleum Corporation

Location: 1621' FNL & 2019' FWL
NW Sec 3-T14S-R10E

Well: Helper State A-1

Lease: ML 45805

Surface Elevation: 6040'

A. Estimated Tops of Important Geologic Markers:

| GEOLOGIC MARKER | DEPTH |
|---|---|
| Mancos / Emery | Surface |
| Bluegate Shale | 1290' |
| Ferron Sandstone | 2290' |
| Ferron Coal Top | 2320' |
| Base of Ferron Coal | 2470' |
| Tununk Shale | 2520' |

B. Estimated Depth at which Water, Oil, Gas or other Mineral-Bearing zones are expected to be encountered:

Gas-bearing Ferron Coal is expected to be encountered from 2320'-2470'.

All fresh water zones and prospectively valuable mineral zones encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

C. Pressure Control Equipment:

A 9" 3000 psi WP double gate hydraulic BOP with pipe rams and blind rams will be installed on the 8-5/8" casinghead. The BOP stack will be tested prior to drilling below surface casing. The ram preventers will be tested to 70% of the working pressure of the casinghead. The annular will be tested to 50% of its working pressure. Operational checks will be made daily or on trips. A BOP schematic is shown on attached Exhibit "A".

The BOP system will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order. This inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. The accumulator system will meet IADC guidelines concerning pump capacities, storage capacity, and reservoir volume. Closing unit fluid volume will be sufficient to pre-charge the system to operating pressure plus 50% excess. One set of controls will be in the doghouse on the rig floor and one set will be remote on the drilling pad.

D. Casing Program

Surface Casing - 8-5/8" casing will be set at approximately 300'.

Production Casing - 5-1/2" casing will be set at approximately 2900' if well is to be completed.

| | SIZE | WT./FT. | GRD. | THRD. | CONDITION |
|---|---|---|---|---|---|
| Surface | 8-5/8" | 24.0 | K-55 | 8rd | New |
| Production | 5-1/2" | 15.5 | K-55 | 8rd | New |

Casing Design Factors

The safety factors on casing strings will equal or exceed the following values:

| | |
|---|---|
| Collapse | 1.0 |
| Joint Strength | 1.6 |
| Burst | 1.33 |

Cement Program

Surface - Cement will be circulated to the surface. Casing will be cemented with approximately 200 cu. ft. of API Class 'G' cement.

Production - Casing will be cemented with approximately 300 cu. ft. of API Class 'G" cement. The actual cement volume will be based upon hole depth and gauge, and will be determined from logs.

Additional additives will be used to retard the cement, accelerate the cement, control lost circulation, or control fluid loss. All cementing will be done in accordance with API cementing practices.

E. Mud Program and Circulating Medium:

Fresh water circulated through the reserve pit will be used for drilling the 12-1/4" surface hole to 300'. An air or air/mist system will be used for drilling from below surface pipe at 300' to TD.

The mud system will be visually monitored.

A truck-mounted air drilling rig may be used to drill the surface hole to 300' and to pre-set the surface casing before moving a drilling rig on location to drill the rest of the hole to TD.

Sufficient mud materials will be stored at the wellsite to maintain mud requirements and to control minor well control or lost circulation problems.

F. Coring, Logging, and Testing Program:

a. Rotary sidewall coring in the Ferron Sandstone interval (2290'-2470') may be performed, depending upon shows and hole conditions.

b. DST's may be run depending upon shows.

c. The following logging program is planned:

1. DIL-ML-SP-GR-CAL over prospective intervals.
2. SDL-CNL-GR-CAL over prospective intervals.

d. A mud logging unit with chromatograph will be used from approximately 300' to TD.

e. Productive zones will be swab tested. Water produced during testing will be contained in the temporary reserve pit. All produced oil will be stored and sold. Gas will be flared during testing.

G. Abnormal Conditions and Potential Hazards:

Abnormal conditions such as abnormal temperatures or pressures are not anticipated. Potential hazards such as $H_2S$ are also not anticipated.

# SURFACE USE PLAN
# TO ACCOMPANY APPLICATION FOR PERMIT TO DRILL

Anadarko Petroleum Corporation
Helper State A-1
1621' FNL & 2019' FWL, NW Sec 3-T14S-R10E
Carbon Co., Utah

1. Existing Roads: See Map A and Map B.

   a. Location of proposed well in relation to town or other reference point: Location is approximately 2.0 miles north of Price, Utah.

   b. Proposed route to location: (See Map "A" for marked access).

   c. Location and description of roads in the area:
   (See Map "A" and Map "B").

   d. Plans for improvement and/or maintenance of existing roads: The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations.

2. Planned Access Roads:

   a. The existing and proposed roads will be crowned, ditched or dipped from the existing County road to the location prior to use for moving the drilling rig onto the site. The maximum disturbed width will not exceed 30' with an eighteen foot running surface. Dust will be controlled by the use of water or an approved dust retardant. All roads, including access to drilling water, will be maintained in as good or better condition than existing condition.

   b. Maximum grades: Maximum grade will be less than 10%.

   c. Turnouts: None planned.

   d. Location: Access to the location uses an existing road up to the location. New road that will be constructed for access off of the existing road is flagged. (See Map B).

   e. Drainage: The road surface will be center crowned with ditches on each side of road. Slopes will have a maximum slope of 3:1.

   f. There will be no culverts placed in the ditchways during the drilling phase of operations. Further evaluation will be made for the additions of culverts if the road is to have long-term use.

   g. Surface materials (source): Surface materials will most likely not be required to be transported to the access road or drillpad for construction purposes. However, if gravel is required, the dirt contractor will be responsible for locating and permitting of any necessary construction material.

3. Location of Existing Wells: (2 mile radius)

The proposed Helper State A-1 location is approximately 5500' southeast of the Helper Federal B-1.

4. Location of Tank Batteries and Production Facilities:

All permanent (on site for six months or longer) structures constructed or installed (including oil well pumpjacks) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee. This will include all facilities except those required to comply with O.S.H.A. (Occupational Safety and Health Act) regulations. These will be painted the color stipulated by O.S.H.A. All facilities will be painted within six months of installation.

Gas meter runs for each well, if needed, will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Test for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The State of Utah will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to State of Utah. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

Water supply for drilling and completion purposes will be furnished by a water hauler.

Water supply will be obtained from either the Price River or from Willow Creek.

6. Source of Construction Material:

Native material will be used for road surfacing and pad construction.

Should additional construction material be required, it will be the responsibility of the dirt contractor to locate and permit (if necessary) use of that material.

7. Methods of Handling Waste Disposal

The reserve pit will be lined.

Produced waste water will be confined to a lined pit for a period not to exceed 90-days after initial production.

Trash will be confined in a covered container and hauled to an approved landfill. Burning of waste or oil is not approved, and spoil material will be kept on site for recontouring.

No bore holes will be used for disposal of waste materials. Human waste will be contained and will be disposed of at an approved sanitary landfill.

8. Ancillary Facilities:

Not applicable for drilling operations in this area.

9. Wellsite Layout:

A plat showing access to the well-pad and the location of the reserve pit are attached.

The location and access road will be cleared of trees prior to any construction. Stumps will be scattered or buried in an area designated by the State of Utah. Any stump left in place will be cut so that the stump height does not exceed 12 inches. All slash less than four inches in diameter will be chipped or scattered outside the cleared area and must be within 24 inches of the ground at all points. All material four inches in diameter or greater will be removed. All of the above will take place prior to placement of drilling facilities.

Topsoil and vegetation will be stripped together to a depth of 6 to 8 inches and stockpiled by wind-row on the northeast edge of the location. No topsoil stripping will be allowed when soils are moisture saturated to a depth of 3 inches, or frozen below the stripping depth.

The reserve pit will be fenced on three sides prior to drilling activity and closed off on the fourth side after drilling is finished. Fencing will be four strands of barbed wire or 48-inch woven wire with one strand of barbed wire above the woven wire. All corners will be braced with a wooden H-type brace. The fence construction will be on cut or undisturbed ground and the fence will be maintained in a livestock tight condition.

10. Plans for Restoration of Surface:

The State of Utah will be notified at least 24-hours prior to commencing reclamation work.

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash, and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed.

If the well is a producer:

Unneeded areas of the location will be reclaimed as soon as the reserve pit has dried. Upgrade and maintain the access roads as necessary to prevent soil erosion and accommodate year-round traffic. Reshape areas unnecessary to operations, rip or disk on the contour, and seed all disturbed area outside the work area according to the seed mixture specified below. Save the topsoil for use during final reclamation unless the site can be recontoured to blend with the natural topography as required for final abandonment. Perennial vegetation must be established. Additional work will be required in case of seeding failures. All permanent facilities placed on the location will be painted to blend with the natural environment.

If the well is abandoned/dry hole:

Restore the access road and location to blend with the natural topography. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location and seed according to the above seed mixture. The access road and location will be ripped or disked prior to seeding.

Prepare seed-bed by contour cultivating four to six inches deep. Drill seed 1/2 to 1 inch deep following the contour. In areas that cannot be drilled, broadcast seed at 1.5 times the application rate and cover 1/2 to 1 inch deep with a harrow or drag-bar.

Fall seeding will be completed after September 1 and prior to ground frost. Spring seeding will be completed after the frost has left the ground and prior to June 1.

11. Other Information:

There will be no deviation from the proposed drilling and/or workover program without prior approval. Safe drilling and operating practices must be observed.

"Sundry Notice and Report on Wells" will be filed for approval for all changes of plans and other operations.

The dirt contractor will be provided with an approved copy of the surface use plan.

An archaeology inspection will be performed by an authorized contractor. Their report on this inspection will be sent directly to the State of Utah.

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sties, or for collecting artifacts or fossils. The Operator will immediately bring to the attention of the State of Utah any and all antiquities or other objects of historic or scientific interest including, but not limited to, historic or prehistoric ruins, artifacts, or fossils discovered as a result of operations under this permit. The operator will immediately suspend all activities in the area of the object and will leave such discoveries intact until told to proceed by the State of Utah. Notice to proceed will be based upon evaluation of the cultural significance of the object. Evaluation will be by a qualified professional. When not practical, the Operator will follow the mitigation requirements set forth by the State of Utah concerning protection, preservation, or disposition of any sites or material discovered. Within five working days the State of Utah will inform the Operator as to:

Whether materials appear eligible for the National Register of Historic Places;

the mitigation measure(s) the Operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,

a time frame for the State of Utah to complete an expedited review to conform, through the State Historic Preservation Officer, that the findings are correct and that mitigation is appropriate.

If the Operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the State of Utah will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, in those situations where the State of Utah determines that mitigation, data recovery and/or salvage excavations are necessary, the Operator will bear the cost. The State of Utah will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the State of Utah that the required mitigation has been completed, the Operator will then be allowed to resume construction.

12. Lessee's or Operator's Representatives and Certification:

REPRESENTATIVE

Name: Dave Winchester
Phone: 281/873-1280
Address: Anadarko Petroleum Corporation
17001 Northchase Drive
Houston, Texas 77060

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by

ANADARKO PETROLEUM CORPORATION

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

3/27/97
Date

Dave Winchester
Dave Winchester
Division Drilling Engineer

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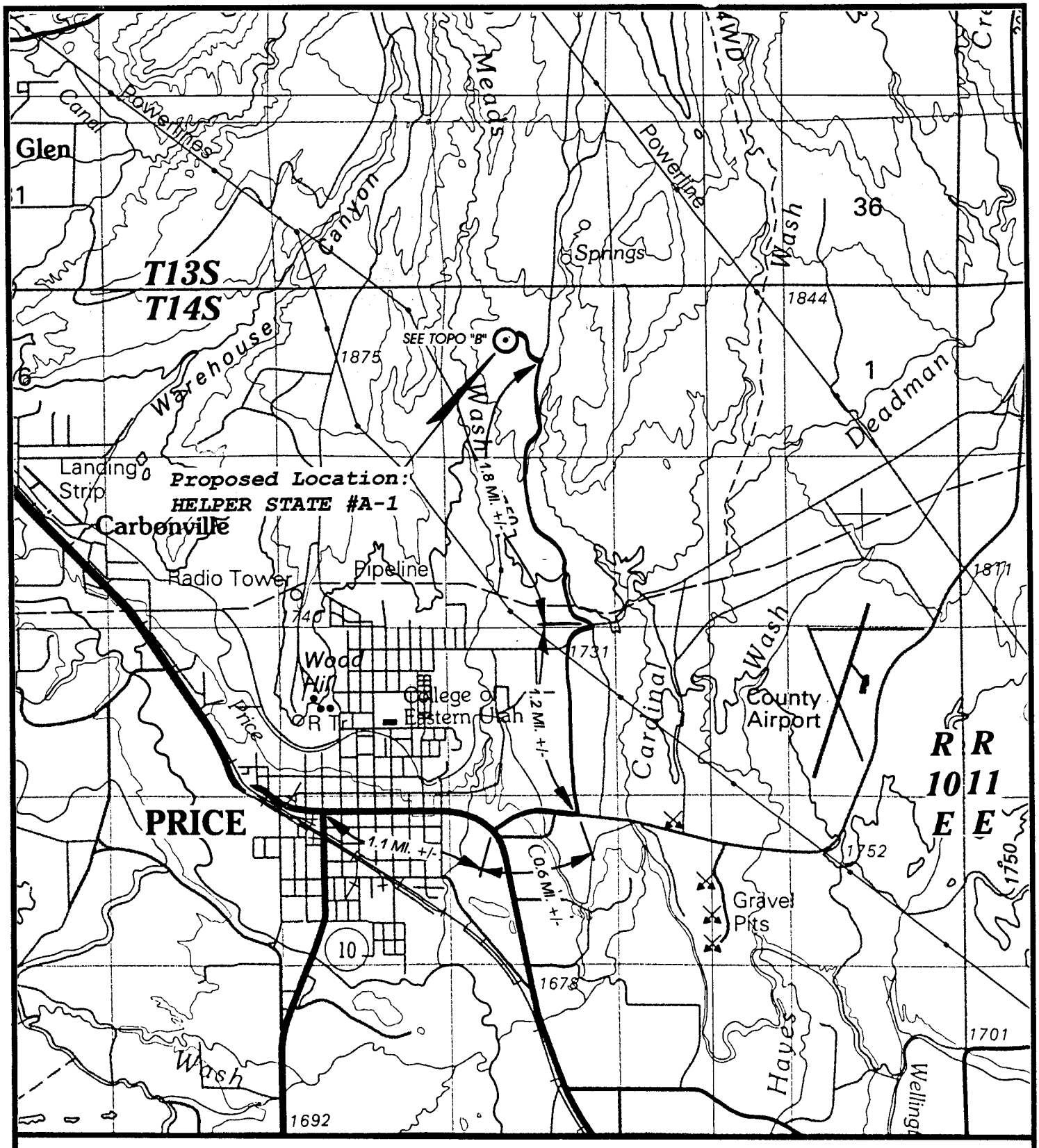


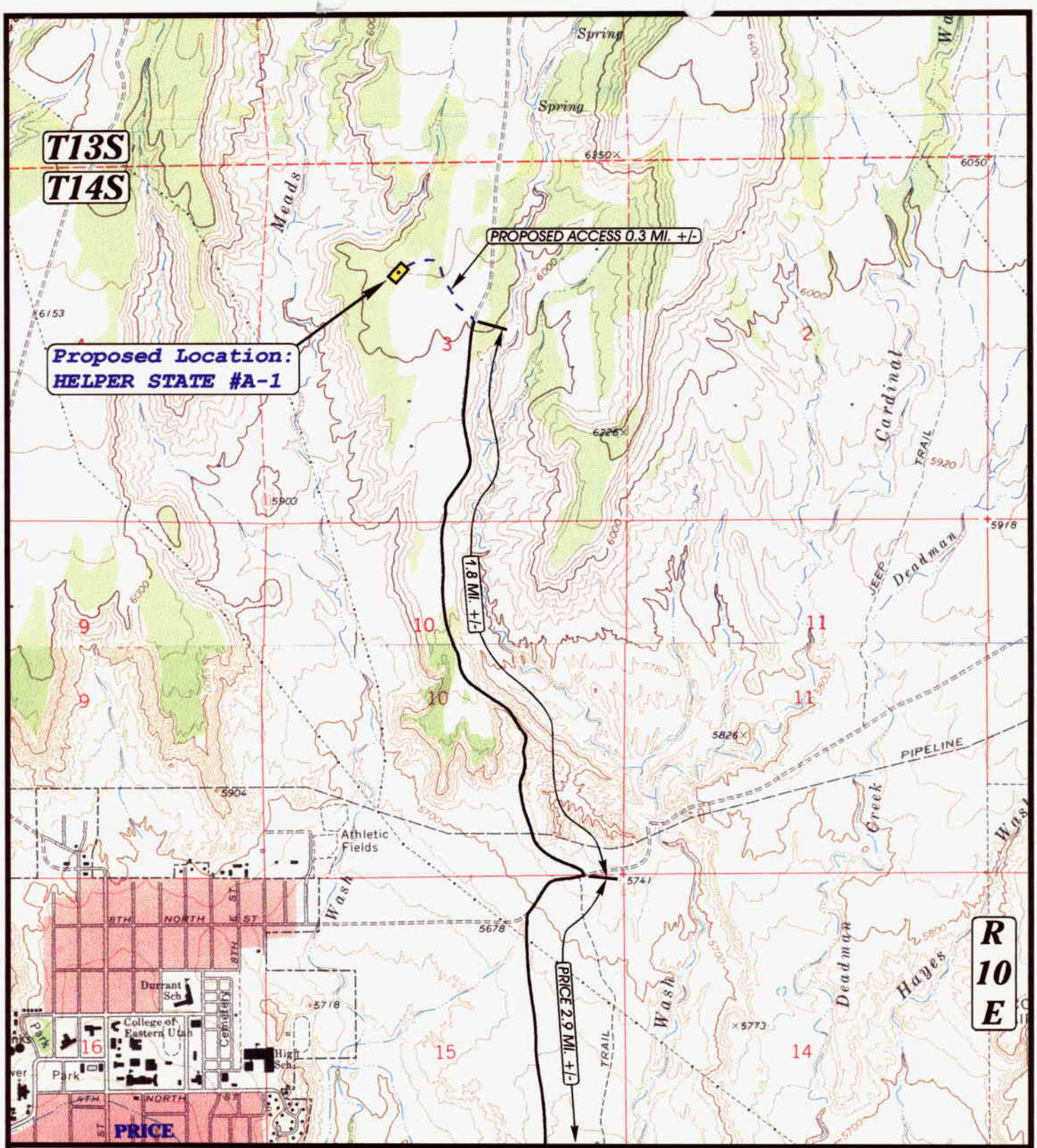

*TOPOGRAPHIC MAP "A"*

DATE: 9-25-96
Drawn by: D.COX

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

**ANADARKO PETROLEUM CORP.**

**HELPER STATE #A-1**
**SECTION 3, T14S, R10E, S.L.B.&M.**
**1621' FNL 2019' FWL**




TOPOGRAPHIC
MAP "B"

DATE: 9-25-96
Drawn by: D.COX

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N

SCALE: 1" = 2000'

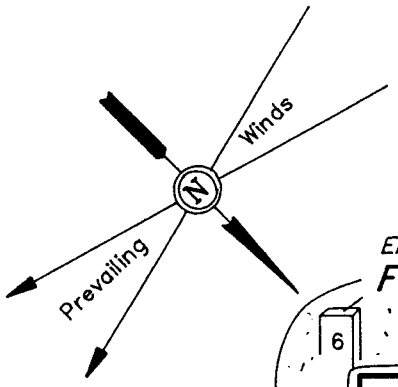
**ANADARKO PETROLEUM CORP.**

**HELPER STATE #A-1**
**SECTION 3, T14S, R10E, S.L.B.&M.**
**1621' FNL 2019' FWL**

# ANADARKO PETROLEUM CORP.

## LOCATION LAYOUT FOR

HELPER STATE #A-1
SECTION 3, T14S, R10E, S.L.B.&M.
1621' FNL 2019' FWL




SCALE: 1" = 50'
DATE: 9-18-96
Drawn By: C.B.T.

El. 35.8'
F-2.6'
Topsoil Stockpile
El. 34.9'
F-3.5'
El. 29.2'
F-9.2'
Sta. 3+40
FLARE PIT
85'
DATA
160'
145'
CATWALK
PIPE RACKS
Approx. Toe of Fill Slope
El. 39.9'
C-1.5'
C-1.6'
El. 40.0'
El. 40.2'
C-11.8'
(btm. pit)
SLOPE 1:1
15'
35'
RIG
DOG HOUSE
115'
FUEL
El. 39.0'
C-0.6'
Sta. 1+80
MUD TANKS
WATER
TRAILER
PUMP
MUD SHED
HOPPER
POWER
TOOLS
FUEL
TOILET
RESERVE PITS (10' Deep)
Pit Capacity with 2' of Freeboard = 6,880 Bbls.
Reserve Pit Backfill & Spoils Stockpile
130'
115'
Sta. 0+75
50'
El. 42.6'
C-14.2'
(btm. pit)
C-5.9'
El. 44.3'
Approx. Top of Cut Slope
65'
TRASH
180'
Existing Small Drainage
STORAGE TANK
El. 45.6'
C-7.2'
Sta. 0+00
El. 44.5'
C-6.1'
C-3.5'
El. 41.9'
Proposed Access Road

ELEV. UNGRADED GROUND AT LOC. STAKE = 6040.0'
ELEV. GRADED GROUND AT LOC. STAKE = 6038.4'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah

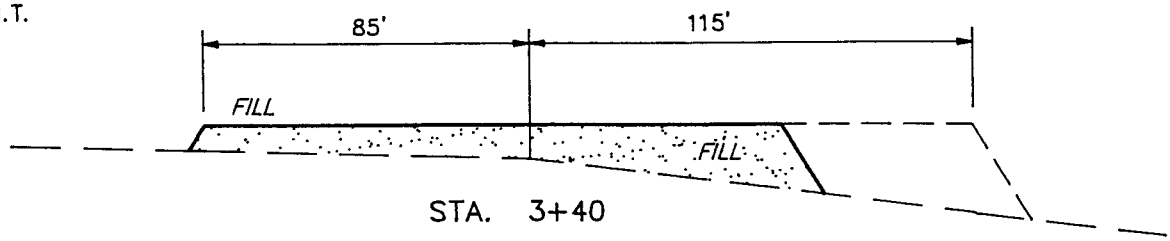
# ANADARKO PETROLEUM CORP.

## TYPICAL CROSS SECTIONS FOR

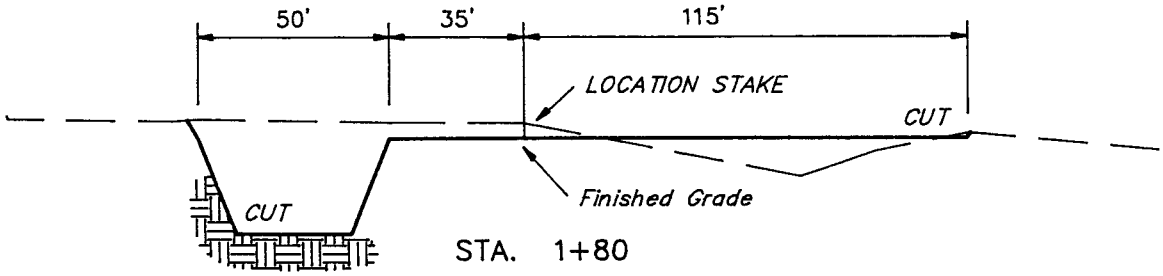
HELPER STATE #A-1
SECTION 3, T14S, R10E, S.L.B.&M.
1621' FNL 2019' FWL

1" = 20'
X-Section
Scale
1" = 50'

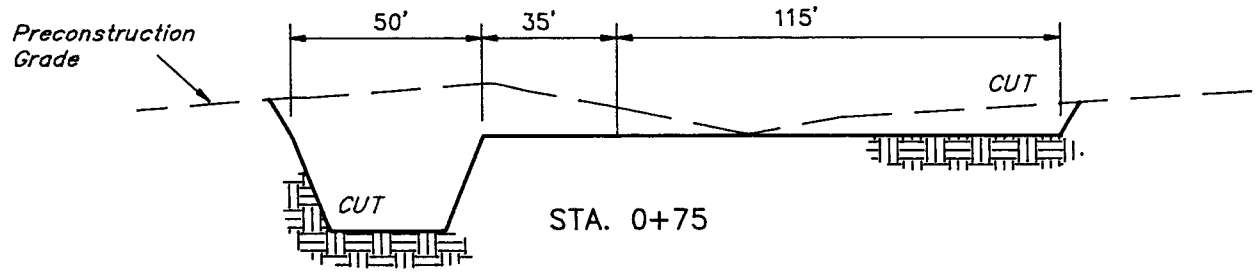
DATE: 9-18-96
Drawn By: C.B.T.



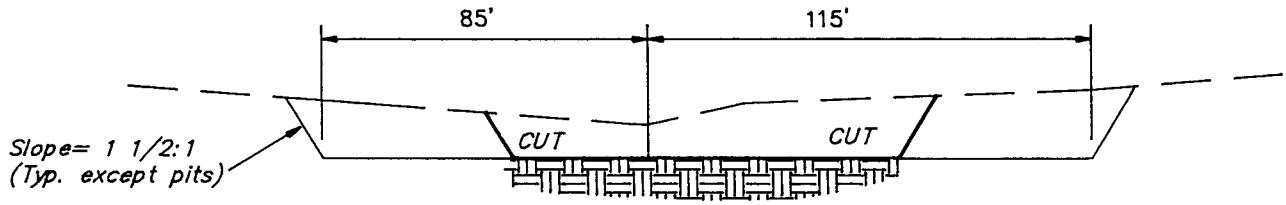

STA. 3+40




STA. 1+80




STA. 0+75




STA. 0+00

## APPROXIMATE YARDAGES

CUT

| | | |
|---|---|---|
| (6") Topsoil Stripping | = | 1,300 Cu. Yds. |
| Remaining Location | = | 5,260 Cu. Yds. |
| TOTAL CUT | = | 6,560 CU.YDS. |
| FILL | = | 4,150 CU.YDS. |

| | | |
|---|---|---|
| EXCESS MATERIAL AFTER 5% COMPACTION | = | 2,190 Cu. Yds. |
| Topsoil & Pit Backfill (1/2 Pit Vol.) | = | 2,190 Cu. Yds. |
| EXCESS UNBALANCE (After Rehabilitation) | = | 0 Cu. Yds. |


UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah

# MEMORANDUM

**Anadarko Petroleum Corporation**
**Houston, Texas**

| | |
|---|---|
| **To:** Mike Hebertson | **Date:** Wednesday, March 26, 1997 |
| **From:** David H. Hudspeth - Staff Drlg. Eng. | **CC:** Winchester |
| **Subject:** APC-Permits To Drill | **Pages to Follow:** 1 |

The attached is a "Location Layout Schematic" showing the original location and the modified location size (dotted line). The new location size is 180' in width and 270' in length. Hopefully this with the revision of the "Surface Use Plan" will be adequate in obtaining APD's for the Birch and Helper wells.

Please advise if any questions or comments should arise. I can be reached at 281-874-8814 or by fax at 281-873-1326.

D.H.Hudspeth

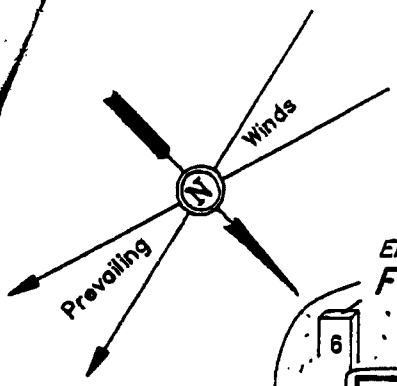
dhh/dhh

C:\MEMOS\DHH\UTAH_APD.DOC

# ANADARKO PETROLEUM CORP.

## LOCATION LAYOUT FOR

HELPER STATE #A-1
SECTION 3, T14S, R10E, S.L.B.&M.
1621' FNL 2019' FWL




SCALE: 1" = 50'
DATE: 9-18-96
Drawn By: C.B.T.

El. 35.8'
F-2.6'
Topsoil Stockpile
El. 34.9'
F-3.5'
El. 29.2'
F-9.2'
Sta. 3+40
FLARE PIT
85'
DATA
160'
120
180'
145'
CATWALK
PIPE RACKS
Approx. Toe of Fill Slope
El. 39.9'
C-1.5'
C-1.6'
El. 40.0'
El. 40.2'
C-11.8'
(btm. pit)
SLOPE 1:1
35'
RIG
DOG HOUSE
115'
FUEL
El. 39.0'
C-0.6'
Sta. 1+80
15'
MUD TANKS
WATER
Reserve Pit Backfill & Spoils Stockpile
RESERVE PITS (10' Deep)
Pit Capacity with 2' of Freeboard = 6,880 Bbls.
130'
PUMP
Trailer
TRAILER
MUD SHED
200
186'
HOPPER
POWER
TOILET
TOOLS
FUEL
Sta. 0+75
50'
115'
El. 42.6'
C-14.2'
(btm. pit)
C-5.9'
El. 44.3'
Approx. Top of Cut Slope
65'
TRASH
180'
150
Existing Small Drainage
340'
270'
STORAGE TANK
El. 45.6'
C-7.2'
Sta. 0+00
85'
El. 44.5'
C-6.1'
C-3.5'
El. 41.9'
Proposed Access Road

1.7ac
340x200 = 68,000
270x180 = 48,600
1.2ac
Reduced by ≈ 30%

ELEV. UNGRADED GROUND AT LOC. STAKE = 6040.0'
ELEV. GRADED GROUND AT LOC. STAKE = 6038.4'

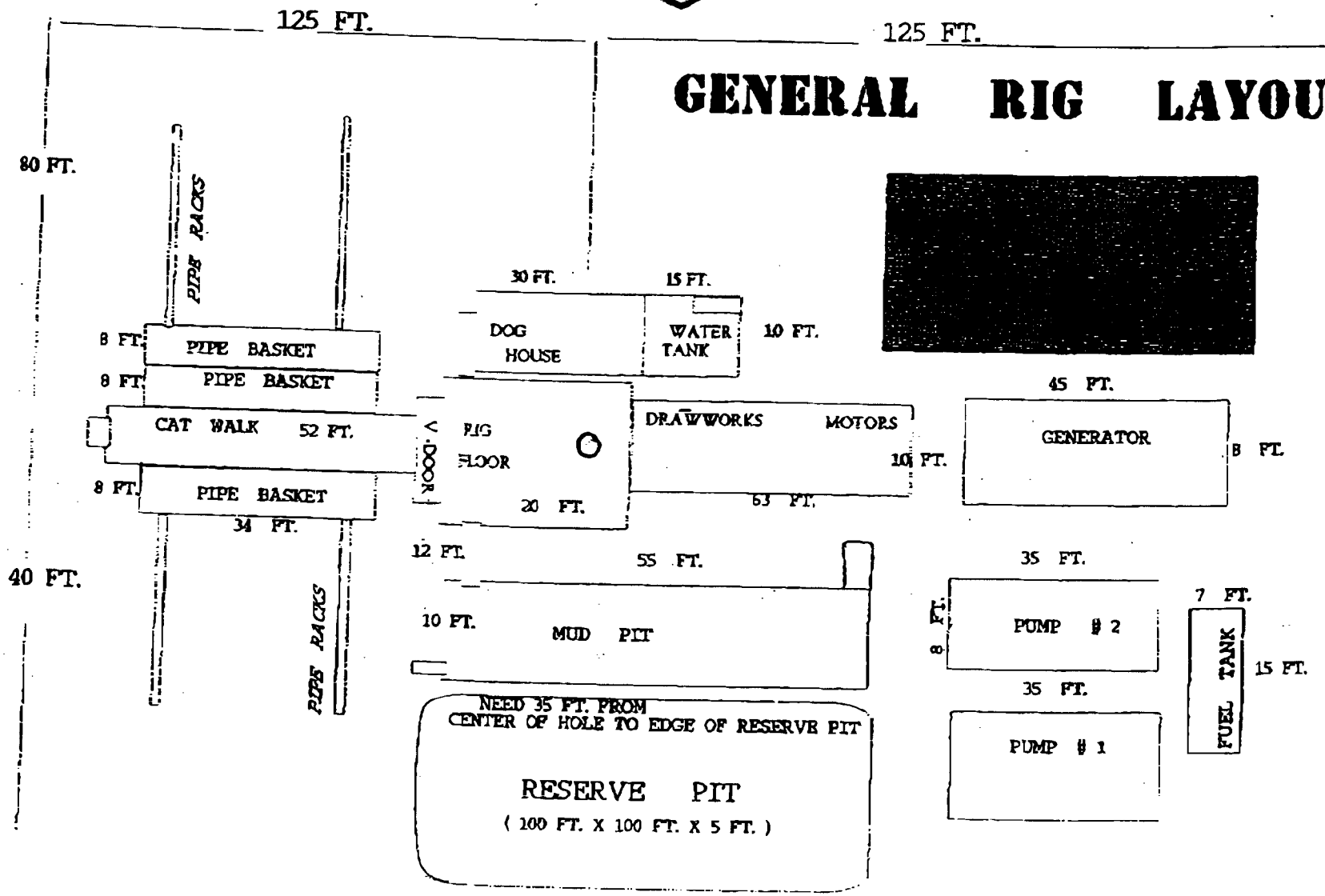
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah

TEL 14054757078



AZTEC WELL SERVICING CO

# GENERAL RIG LAYOUT



# State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Robert G. Valentine
Division Director

1596 West North Temple
Salt Lake City, Utah 84116-3195
801-538-4700
801-538-4709 (Fax)




March 11, 1997

Jim Carter
Director
Utah Division of Oil, Gas, and Mining
1594 West North Temple
Salt Lake City, Utah 84114-5801

ATTENTION: Michael Hebertson

Subject: RDCC Agenda 3-11-97 Applications for 3 Permits to Drill--Carbon County
Action Item #21 Birch #A-1
Action Item #22 Anadarko Helper State A-1
Action Item #23 Helper State #D-7

Dear Jim:

Utah Division of Wildlife Resources has reviewed the subject drilling projects, all of which lie within critical and high-priority valued deer winter range. In order to lessen direct losses to winter range habitats, we recommend that well site development, pipeline right-of-way development, and road construction be limited to only what is absolutely needed for these three well sites. It is important to note that due to human disturbance between December 1 and April 15, habitats with in a 0.5 mile radius of wells and access roads are used far less by wintering big game than undisturbed areas, resulting in an indirect loss of habitat. Once the field is defined through drilling, a suitable transportation and pipeline right-of-way system can be designed.

Wildlife forage in many continuous stands of pinyon/juniper forest can benefit greatly from canopy removal and revegetation with an appropriate prescription. However, the limiting factor in this project area is thermal and hiding cover offered by the pinyon/juniper trees and/or forage offered by mature shrubs big enough to remain above snow fall. The large number of proposed well sites in this field with their associated pipeline right-of-way systems and road systems further increases the value and need for cover. Disturbed areas will need to be reseeded immediately following facility installation.

The proposed transportation system shows more road development than is needed for these initial three wells and until the gas field is better defined there does not exist need for additional roads. There are several existing roads in the area that should be used before new roads are constructed. The power line right-of-way road should be used to cross the project area from east to west. Access to Helper State #D-7, should use the existing road north of Price or the power line right-of-way road. If feasible the road to Birch #A-1 should come in from the west.

Pipeline right-of-ways should parallel existing roads, which will lessen habitat impacts and facilitate ease in maintenance. If possible the pipeline from D-7 or the west side, to the processing point should wait until a need is established. We are concerned the pipeline to the processing point is being used to put in a new road. The proposed pipeline route is circuitous and joins the existing road nearly a mile south of the processing plant.

The pad sizes are almost twice the size of pads used by other companies and need to be kept to a minimum size. The possibility of using a larger sized pad and then reseeding immediately after rig removal was discussed during an onsite inspection on February 27. An onsite inspection of D-7 on March 11 showed that the pad is almost exclusively in mature shrubs, which are of critical importance to big game during winter periods. Translocating shrubs that are two years old or younger (older shrubs will not survive transplanting) from areas to be disturbed to nearby suitable sites may be of merit, since the value of reseeding as it relates to the shrub community would not be realized in these areas until they regrew to the mature state that is already found at the site.

We are concerned with the lack of plans on state lands to avoid, minimize and/or mitigate for impacts associated with development, maintenance, and operation of the well field. We would appreciate the opportunity to work with Anadarko in developing a mitigation plan. A mitigation proposal needs to be prepared addressing the following issues:

- Procedures designed to avoid or minimize disturbance to wintering big game between the period December 1 to April 15 as follows:

  (1) Initial construction, road building, drilling, or other development activities associated with the wells should be completed outside the winter period.
  (2) Routine maintenance work requiring heavy equipment should be completed outside the winter period.

(3) Access roads to the wells need to be gated to restrict (we would prefer completely closed off) unauthorized vehicular access during the winter period. (4) Monitor, to the extent possible, producing wells using telemetry, which will reduce needed visits to the actual site during winter periods.

- Methodology and practices designed to compensate for long-term direct and indirect impacts to big game winter range habitat. For example translocation of individual mature browse plants that are situated in harms way. Additionally, a suitable amount of habitat must be enhanced to replace the habitat units directly and indirectly lost. This can be determined by HEP analysis, and typically requires 3 acres of enhancement for each impacted acre. This effort should include assessing use of raw water obtained from the wells or treating it to lessen dissolved solids in order for the company to sprinkler irrigate habitats proximal to well sites to enhance forage conditions and lure big game into disturbance areas they prefer not to use.

- Secure a sufficient reclamation bond, which should include the development of an reclamation plan that addresses sequential road closures, including an appropriate revegetation prescription for the areas interim and final reclamation, .

We appreciate the opportunity to review these gas well proposals and provide comments. Please coordinate with Bill Bates--Habitat Manager--or Ben Morris--Habitat Biologist--at our Southeastern Regional Office (801-637-3310) in Price, Utah.

Sincerely,

John Kimball
Acting Director

cc: Carolyn Wright, RDCC (Agenda 3-11-97, Items 21, 22, 23)

Michael O. Leavitt
Governor
David T. Terry
Director

# State of Utah

*School and Institutional*
TRUST LANDS ADMINISTRATION

675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818
801-538-5100
801-355-0922 (Fax)

April 2, 1997

Via Facsimile 359-3940

Mr. James W. Carter, Director
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114

Re: Applications for Permit to Drill -- Birch #A-1, Anadarko Helper State # A-1, Helper State # D-7 Wells

Dear Jim:

The School & Institutional Trust Lands Administration (the "Trust Lands Administration") has obtained a copy of a March 11, 1997 letter to you from John Kimball, the Acting Director of the Utah Division of Wildlife Resources ("DWR"), concerning the above-referenced wells. In his letter, Mr. Kimball asks that the Division of Oil, Gas & Mining ("DOGM") limit wellsite development and associated activities in connection with the proposed wells, and require an extensive mitigation plan to address perceived impacts upon big game.

Two of the three proposed wells are located upon state school trust lands, and the third is located on federal lands. Under DOGM rule R649-3-34, surface impacts caused by oil and gas activities on state lands are governed by the requirements of the surface management agency, i.e the Trust Lands Administration. The limitations proposed by DWR go well beyond conditions that have traditionally been imposed by DOGM, and are arguably beyond DOGM's jurisdiction (particularly with regard to off-site actions and mitigation). We believe that it would be inappropriate for DOGM to impose any of the requested limitations without serious and substantive consultations with this agency.

The Trust Lands Administration is not averse to reasonable measures to protect wildlife in connection with mineral development on school trust lands. However, DWR has never at any point directly raised the concerns set forth in Mr. Kimball's letter with the Trust Lands Administration, and did not choose to inform us of the letter to DOGM. We request that DOGM refer DWR to this agency for resolution of this and any future surface use issues involving wildlife on trust lands. If DOGM does intend at any time to impose non-standard restrictions on oil & gas lessees of school trust lands, we would also appreciate the opportunity to comment.

Please feel free to call me at 538-5101 if you have any questions, and thank you for your assistance.

Sincerely yours,

David T. Terry
Director

cc: Ted Stewart
John Kimball
Anadarko Petroleum Corp.

APC 214 (9/90)

# RELEASE OF WELL LOCATION
## UNCONVENTIONAL RESERVOIRS

**Date:** January 31, 1997

**Well Name:** Helper State A-1 **AFE No.:** 15225

**Prospect or Field:** Helper-Price

**County/State:** Carbon County, Utah

**Located on APC Acreage?** Yes **APC Lease No.:** 43-007-0093-00
(State of Utah ML-45805)

**Lease Expiration Date or HBP/HBU:** 3/01/03

**Location:** 1,621' FNL & 2,019' FWL, Section 3, T14S-R10E, S.L.B.&M.

**Brief Description of Drillsite or Unit Tract:** NW/4 of Section 3

***Formations Spaced or Anticipated Spacing:** Anticipate 160-acre spacing.

**Obligation Commencement Date (if any):** ASAP.

**Primary Objective or Obligation Depth (if any):** Ferron Coal--approximately 2,900' TD.

**Depth Restrictions (if any):** None.

**Operator:** Anadarko

**APC Interest:** WI 100% NRI 87.50%
(ORRI: N/A )

* **Surface Owner (Name & Address):** State of Utah Fish and Game Department, School and Institutional Trust Lands Adm, 675 East 500 South, Suite 500, Salt Lake City, UT 84102

* **Tenant (Name & Address):** State of Utah Fish and Game Department
c/o School and Institutional Trust Lands Adm

**Surface Disturbance Stipulations, Easements, Etc.:**
Production group shall conduct detailed surface inspection prior to building the location and be on the lookout for possible rights-of-way, reservoirs and mining activity among other things. See existing easements and R-O-W's on Exhibit "B".

* **Title Information:** Drilling Title Opinion dated January 15, 1997, covering State of Utah Lease ML-45805, prepared by Carleton Ekberg of Poulson, Odell & Peterson, Denver, CO.

**Comments:**

**Committee Approved:** January 14, 1997

**Distribution:**
Jerry Windlinger**
John Beaird*
Steve Ruhl*
Steve Pearson*
Craig Walters*

D. D. Anderson - Marketing**
Division Admin. Manager - Houston**
Manager - Land Administration**
Supervisor - Joint Int. Acc'ting**
Land Unit File*

*FAX TRANSMITTAL*

April 11, 1997

Mr. David Hudspeth
Anadarko Petroleum Corporation

As we discussed during our telephone conversation this morning, I am sending you information concerning the requirements for justifying exceptions to the well siting rules of the Division of Oil, Gas and Mining. I have attached a copy of referenced rule.

Rule no. R-649-3-3 requires that a written application for an exception well location which includes several items. But the most critical requirement is the written consent from owners affected by the exception. Obviously, if ownership is the same for all surrounding acreage, then the exception justification is very simple.

For the three wells currently being processed for drilling permit approval, I am including a copy of this correspondence in the file. From your statements in our telephone conversation, I will accept that Anadarko owns the mineral rights in all of Sections 3, 4 and 5 of Township 14 South, Range 10 East in Carbon County. You should still submit to the Division a written statement to this effect in order to comply with the requirements of the rule.

Thank you for your response to my questions. Please let me know if I can be of any help to you. My telephone number is (801) 538-5334 and my fax number is (801) 359-3940.

John Baza
Petroleum Engineer
Utah Division of Oil, Gas and Mining

*FAX TRANSMITTAL*

April 11, 1997

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Anadarko Petroleum Corporation

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John Baza
Petroleum Engineer
Utah Division of Oil, Gas and Mining

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: ML 45805

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

1. Type of Well: OIL ☐ GAS ☐ OTHER: COALBED METHANE

8. Well Name and Number: Helper State A-1

2. Name of Operator: Anadarko Petroleum Corporation

9. API Well Number:

3. Address and Telephone Number: 17001 Northchase Dr., Houston, Texas 77060 281-874-8814

10. Field and Pool, or Wildcat: Helper CBM

4. Location of Well

Footages: 1621 FNL & 2019 FWL, NW SEc 3, T14S, R10E

QQ,Sec., T., R., M.:

County: Carbon

State: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT** (Submit in Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recomplete
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off
- ☒ Other Location Exception

Approximate date work will start: April, 1997

**SUBSEQUENT REPORT** (Submit Original Form Only)

- ☐ Abandon*
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion:

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject well is proposed as stated above due to more favorable "Topographic & Geologic" considerations. We feel this will increase the chances of drilling and completing a successful well in conjunction of reducing any surface damages.

13. Name & Signature: David H. Hudspeth Title: Staff Drilling Engineer Date: April 8, 1997

(This space for State use only)

(See Instructions on Reverse Side)

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)

3. APPROXIMATE DATE PROJECT WILL START:
Upon Approval

4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Five County Association of Governments

5. TYPE OF ACTION: /_/ Lease /X/ Permit /_/ License /_/ Land Acquisition
/_/ Land Sale /_/ Land Exchange /_/ Other _____

6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill

7. DESCRIPTION:
Anadarko Petroleum Corporation proposes to drill the Helper State A-1 well (wildcat) on state lease ML-45805, Carbon County, Utah. This action is being presented to RDCC for consideration of resourceissues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.

8. LAND AFFECTED (site location map required) (indicate county)
SE/4, NW/4, Section 3, Township 14 South, Range 10 East, Carbon County, Utah

9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?

10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
Degree of impact is based on the discovery of oil or gas in commercial quantities.

11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:

12. FOR FURTHER INFORMATION, CONTACT:
R. J. Firth
PHONE: 538-5274

13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL:

DATE: 2-19-97

Associate Director

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 01/17/97

API NO. ASSIGNED: 43-007-30349

WELL NAME: HELPER STATE A-1
OPERATOR: ANADARKO PETROLEUM CORP (N0035)

PROPOSED LOCATION:
SENW 03 - T14S - R10E
SURFACE: 1621-FNL-2019-FWL
BOTTOM: 1621-FNL-2019-FWL
CARBON COUNTY
UNDESIGNATED FIELD (002)

LEASE TYPE: STA
LEASE NUMBER: ML-45805

PROPOSED PRODUCING FORMATION: FRSD

| INSPECT LOCATION BY: / / | | |
|---|---|---|
| TECH REVIEW | Initials | Date |
| Engineering | JRB | 4/7/97 |
| Geology | | |
| Surface | | |

RECEIVED AND/OR REVIEWED:

✓ Plat
✓ Bond: Federal [] State [✓] Fee []
(Number 224351)
N Potash (Y/N)
N Oil shale (Y/N)
✓ Water permit
(Number commercial supplier)
✓ RDCC Review (Y/N)
(Date: 2-19-97)

LOCATION AND SITING:

___ R649-2-3. Unit: _____

___ R649-2-3. General.

✓ R649-3-3. Exception.

___ Drilling Unit.
Board Cause no: _____
Date: _____

COMMENTS: Casing design OK

STIPULATIONS: _____

# DIVISION OF OIL, GAS AND MINING
## APPLICATION FOR PERMIT TO DRILL
## STATEMENT OF BASIS

**Operator Name**: Anadarko Petroleum Corp

**Name & Number**: Helper State A - 1

**API Number**: 43 - 007 - 30349

**Location**: 1/4,1/4 SENW Sec. 3 T. 14 S R. 10 E

**Geology/Ground Water:**

A minor aquifer may be encountered close to the surface. Two active springs which are closely subjacent to the pediment mantle, the lower of which is close to the same topographic contour as the pad, are about 0.5 miles northeast in a tributary to Cardinal Wash. Garley Canyon Sandstone Beds of the Blue Gate Shale Member of the Mancos Shale thin or pinch out nearby so they should not present a significant ground water resource. The proposed casing and cement program should adequately isolate any zones of water penetrated.

**Reviewer**: Christopher Kierst and K. Michael Hebertson **Date**: 3/6/97

**Surface:**

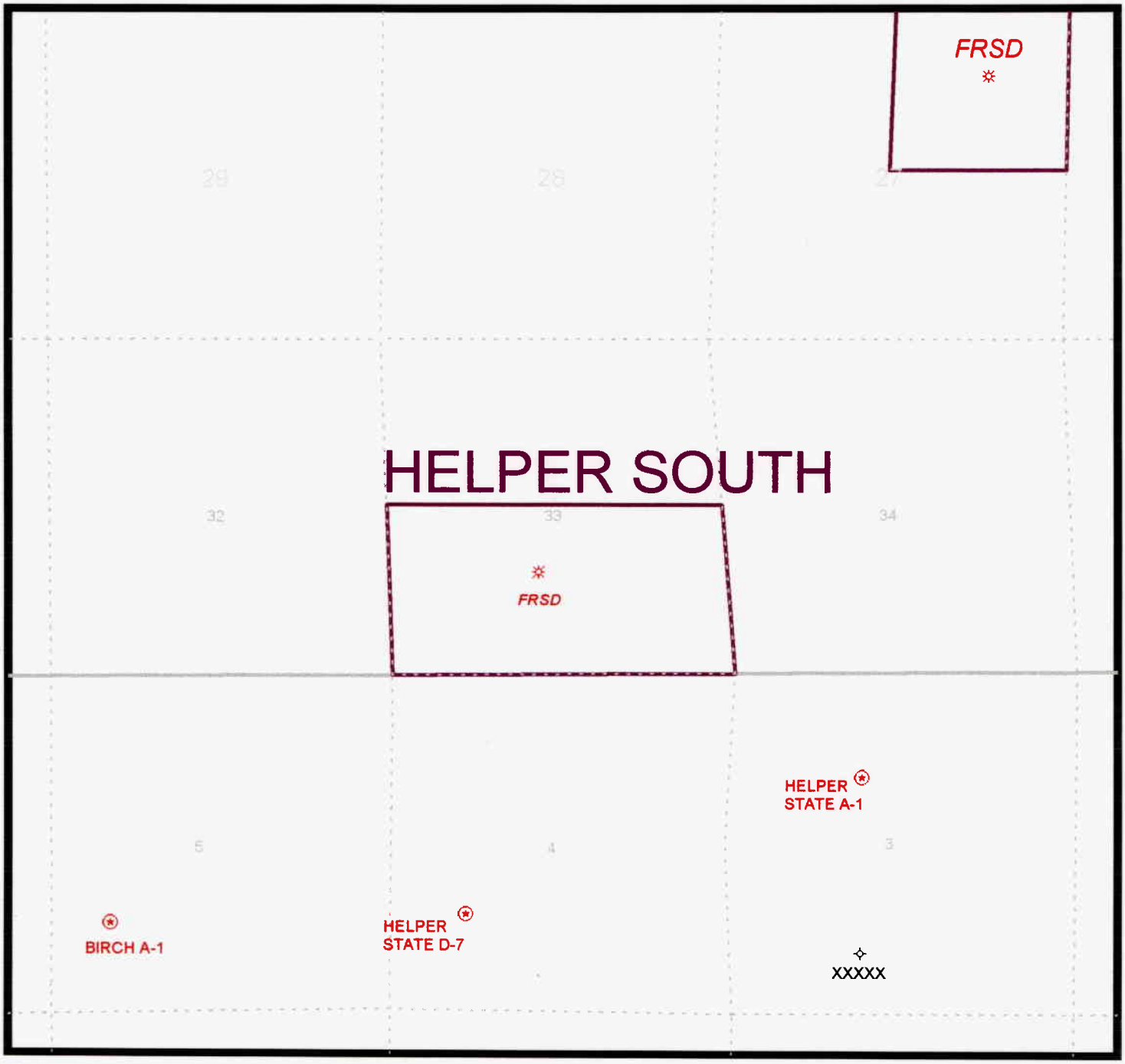
A highly permeable soil and possible ground water resource militates the need for the protection of a lined pit. Precipitation will be deflected around the location with berms and culverts. There are no nearby culinary or irrigation water supply wells. Provision was made to ensure site rehabilitation, litter and waste control, preservation of drainage patterns and the integrity of local infrastructure, groundwater and other resources. Power lines and gathering systems will follow access roads. No 404 dredge and fill permit is deemed needed for operations directly associated with this location. No flashflood hazard is evident in the area of the location. Inclement weather and snow cover necessitated the use of past experience in similar settings as a substitute for visual characterization of some environmental parameters at the location. This Statement of Basis reflects a level of confidence commensurate with the conditions at the time of the presite. The Division received comments from the Division of Wildlife Resources (DWR) by letter dated March 11, 1997. They revealed in the letter several concerns, recommendations and proposals the nature of which largely go beyond what this Division currently views as permissible for including as drilling permit stipulations. Comments were also received from SITLA concerning and in response to DWR's concerns encouraging the Division not to impose excessive requirements related to wildlife and other surface activities on the applicant.

**Reviewer**: Christopher Kierst and K. Michael Hebertson **Date**: 3/5/97

**Conditions of Approval/Application for Permit to Drill:**

1. Recommend culverts sufficient to manage expected runoff, standing and surface water in crossed drainages.
2. Berm location and pit.
3. Site infrastructure as per modified drilling location plat.
4. Minimum 12 mil synthetic lined pit.
5. Soil storage as per modified drilling location plat.
6. Reclaim unnecessary road segments created by more directly accessing location facilitate ingress while preserving road net, as per SITLA.

OPERATOR: ANADARKO
FIELD: UNDESIGNATED (002)
SECTION: 3,4,5, T14S, R10E
COUNTY: CARBON
UAC: R649-3-3




PREPARED:
DATE: 21-JAN-97

**ON-SITE PREDRILL EVALUATION**

**Division of Oil, Gas and Mining**

OPERATOR: Anadarko

WELL NAME & NUMBER: Helper State A - 1

API NUMBER: 43-007-30349

LEASE: State of Utah ML - 45805 FIELD/UNIT: Wildcat

LOCATION: 1/4,1/4 SENW Sec: 3 TWP: 14S RNG: 10E 1621 FNL 2019 FWL

LEGAL WELL SITING: 460 F SEC. LINE; ____F 1/4,1/4 LINE; 920 F ANOTHER WELL.

GPS COORD (UTM): x = ; y =

SURFACE OWNER: State of Utah

PARTICIPANTS

M. Hebertson, C. Kierst, Jeff Duncan (Anadarko), Steve Gray (TN Construction), David Kay (Uintah Engineering) and Ben Morris (DWR). SITLA land managers were consulted but were unable to attend the presite.

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Western margin of Colorado Plateau/~4 miles South of the Tavaputs Plateau and 4 miles south of the 1000-1500' Book Cliffs. Location is on pediment mantle which is Quaternary in age. Shallow canyons (1-200' deep) incise pediment slopes forming benches north and east of Price, UT, below the Book Cliffs. Pediment gently slopes south. Location is on wooded, gently rolling ground.

SURFACE USE PLAN

CURRENT SURFACE USE: Grazing and wildlife habitat

PROPOSED SURFACE DISTURBANCE: 340' X 300' pad with 130' X 50' X 10' pit included as part of the location. 0.3 miles of approach road and upgrades needed. Spoils and topsoil stockpiles and reserve pit backfill pile will be stored outboard of the pad.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: None

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Powerline and gathering system follow approach road.

SOURCE OF CONSTRUCTION MATERIAL: Native material will be used to

gravel approach road and location. Any additional material will be acquired from TN Construction sources.

ANCILLARY FACILITIES: None

WASTE MANAGEMENT PLAN:

Portable toilets; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill. Reserve pit will be dried after use and then buried. Water produced during testing and completion will be stored in a lined temporary reserve pit and disposed of by injection, reverse osmosis or evaporation.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: Price Canal is ~2.5 miles southwest. Price River is 3 miles southwest. State Division of Water Rights personnel (Mark Page of Price, UT-?) should be included in activities and planning to clear areas for compliance with 404 Dredge and Fill Permit requirements.

FLORA/FAUNA: Pinyon, juniper, sagebrush, indian rice grass, broom snakeweed, winterfat, greasewood, shadscale, blue gramma, dryland sedge, elymus species, salina wild rye, cactus, / birds, coyotes, rodents, golden eagle nests, elk and deer, reptiles. Inclement weather and snow cover necessitated the use of past experience in similar environments as a substitute for visual characterization of the flora / fauna at this location. See Comment 15.

SOIL TYPE AND CHARACTERISTICS: Sandy, cobbled, highly-permeable soil of the Quaternary pediment mantle which overlies the existing Blue Gate Shale member of the Cretaceous Mancos Shale. Inclement weather and snow cover necessitated the use of existing mapping and past experience in similar geologic settings as a substitute for visual characterization of the soil permeability at this location. See Comment 15. (GM)

SURFACE FORMATION & CHARACTERISTICS: Quaternary pediment mantle. Light brown, brown, gray or reddish brown, unconsolidated, massive-bedded sediments consisting of silts, sands, pebbles, boulders, and cobbles in a poorly sorted mixture. Inclement weather and snow cover necessitated the use of existing mapping and past experience in similar geologic settings as a substitute for visual characterization of the surficial geology at the location. See Comment 15.

EROSION/SEDIMENTATION/STABILITY: Stable ground with no undermining, flowage or upheaval evident locally. Erosion is limited to minor dry washes during cloudbursts, high winds and periods of rapid snowmelt with sedimentation occuring during the wane of these episodes.

PALEONTOLOGICAL POTENTIAL: Paleontologists at UGS know of no fossil resource at any of the sites as quoted to them by 1/4 1/4 1/4 (pursuant to request on 3/7/97, pers. comm. via voicemail w/ Martha Hayden of UGS, 3/10/97). Inclement weather and snow cover necessitated the use of existing mapping and past experience in similar geologic settings as a substitute for visual characterization of the paleontology at the location. See Comment 15.

RESERVE PIT

CHARACTERISTICS: 130' X 50' X 10' excavated pit bermed to deflect runoff.

LINER REQUIREMENTS (Site Ranking Form attached): Minimum 12 mil synthetic liner

SURFACE RESTORATION/RECLAMATION PLAN

Site will be restored to SITLA standards upon abandonment.

SURFACE AGREEMENT: As per mineral lease ML-45804 with the State of Utah.

CULTURAL RESOURCES/ARCHAEOLOGY: Cleared and on-file.

OTHER OBSERVATIONS/COMMENTS

Items discussed included: 1)Increasing the scope of the information presented in association with future APD's when APD's are part of a larger project with much larger infrastructure plan. 2)Need for crossover roads. 3)Need for large pads. 4)Location of power lines and gathering system. 5)Need for consultation with affected municipalities. 6)Reclamation of unnecessary road segments of existing two-track jeep trails created by more directly accessing location. 7)Minimizing access road sinuousity and spurrious loops 8)Startups after April 15, 1997 as per DWR 9) Drilling restrictions after December 1, 1997 as per DWR. 10)Investigate the use of existing access roads. 11)Need to properly draft the APD documentation to DOGM rather than BLM when the locations are on state leases 12)Need to exlicitly state the source of the water supply. 13)All wells not sited within an approved state 40 acre location will require an exception to location and siting request. 14)Area is critical elk and deer winter range according to DWR. 15)The characterizations of the several environmental parameters presented in this document should be employed with a degree of caution commensurate with the conditions at the time of the presite.

ATTACHMENTS:

One photo

| K. Michael Hebertson and Christopher Kierst | 2/27/97 PM |
| --- | --- |
| DOGM REPRESENTATIVE | DATE/TIME |

**Evaluation Ranking Criteria and Ranking Score**
**For Reserve and Onsite Pit Liner Requirements**

| Site-Specific Factors | Ranking | Site Ranking |
|---|---|---|
| Distance to Groundwater (feet) | | |
| >200 | 0 | |
| 100 to 200 | 5 | |
| 75 to 100 | 10 | |
| 25 to 75 | 15 | |
| <25 or recharge area | 20 | 20 |
| Distance to Surf. Water (feet) | | |
| >1000 | 0 | |
| 300 to 1000 | 2 | |
| 200 to 300 | 10 | |
| 100 to 200 | 15 | |
| < 100 | 20 | 0 |
| Distance to Nearest Municipal Well (feet) | | |
| >5280 | 0 | |
| 1320 to 5280 | 5 | |
| 500 to 1320 | 10 | |
| <500 | 15 | 0 |
| Distance to Other Wells (feet) | | |
| >1320 | 0 | |
| 300 to 1320 | 10 | |
| <300 | 20 | 0 |
| Native Soil Type | | |
| Low permeability | 0 | |
| Mod. permeability | 10 | |
| High permeability | 20 | 20 |
| Fluid Type | | |
| Air/mist | 0 | |
| Fresh Water | 5 | |
| TDS >5000 and <10000 | 15 | |
| TDS >10000 or Oil Base | 20 | |
| Mud Fluid containing high levels of hazardous constituents | | 0 |
| Drill Cuttings | | |
| Normal Rock | 0 | |
| Salt or detrimental | 10 | 0 |
| Annual Precipitation (inches) | | |
| <10 | 0 | |
| 10 to 20 | 5 | |
| >20 | 10 | 5 |
| Affected Populations | | |
| <10 | 0 | |
| 10 to 30 | 6 | |
| 30 to 50 | 8 | |
| >50 | 10 | 0 |
| Presence of Nearby Utility Conduits | | |
| Not Present | 0 | |
| Unknown | 10 | |
| Present | 15 | 0 |

**Final Score** (Level I Sensitivity) 45

4-11-97
JRB

David Hudspeth (281) 874-8814
fax (281) 873-1326

- According to the information which he has, Anadarko controls all acreage in Sections 3, 4, and 5 of T.14S, R.10E., Carbon Co.
- I instructed him to send in a document which states their ownership and I will approve the APD on that basis.

4-8-91
JRB

# Anadarko - Helper State D-7 Also, Helper State A-1 and Birch A-1

## Casing Evaluation

Production casing:

Max mud wt = 10.0 ppg (estimated)

BHP = (10 X 0.052 X 2700)

= 1404 psi

Burst str. of 5½", 17#, K-55 = 5,320 psi

Burst S.F. = $\frac{5320}{1404} = 3.79$

Collapse str. of 5½", 17#, K-55 = 4910

Collapse SF = $\frac{4910}{1404} = 3.50$

Weight of string = (17 X 2700) = 45,900

St. str. of 5½", 17#, K-55, STC = 252,000

Tension SF = $\frac{252,000}{45,900} = 5.49$

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

# State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 17, 1997

Anadarko Petroleum Corporation
17001 Northchase Drive
Houston, Texas 77060

Re: Helper State A-1 Well, 1621' FNL, 2019' FWL, SE NW, Sec. 3, T. 14 S., R. 10 E., Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30349.

Sincerely,

Lowell P. Braxton
Deputy Director

lwp
Enclosures
cc: Carbon County Assessor
Bureau of Land Management, Moab District Office

**Operator:** Anadarko Petroleum Corporation

**Well Name & Number:** Helper State A-1

**API Number:** 43-007-30349

**Lease:** ML-45805

**Location:** SE NW **Sec.** 3 **T.** 14 S. **R.** 10 E.

## Conditions of Approval

1. General
   Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements
   Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

   Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements
   All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis dated March 6, 1997 (copy attached).

DIVISION OF OIL, GAS AND MINING

# SPUDDING INFORMATION

Name of Company: ANADARKO PETROLEUM CORP.

Well Name: HELPER STATE A-1

Api No. 43-007-30349

Section: 3 Township: 14S Range: 10E County: CARBON

Drilling Contractor AZTEC

Rig # 184

SPUDDED:

Date 4/21/97

Time

How ROTARY

Drilling will commence

Reported by HARLEN COLLIER

Telephone # 1-801-636-9000

Date: 4/22/97 Signed: JLT

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: ML 45805

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number: Helper State A-1

9. API Well Number:

10. Field and Pool, or Wildcat: Helper CBM

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL ☐ GAS ☐ OTHER: COALBED METHANE

2. Name of Operator: Anadarko Petroleum Corporation

3. Address and Telephone Number: 17001 Northchase Dr., Houston, Texas 77060 281-874-8814

4. Location of Well
Footages: 1621 FNL & 2019 FWL, NW Sec 3, T14S, R10E
QQ,Sec., T., R., M.:
County: Carbon
State: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT** (Submit in Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recomplete
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off
- ☒ Other Location Exception

Approximate date work will start: April, 1997

**SUBSEQUENT REPORT** (Submit Original Form Only)

- ☐ Abandon*
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject well is proposed as stated above due to more favorable "Topographic & Geologic" considerations. We feel this will increase the chances of drilling and completing a successful well in conjunction of reducing any surface damages.

RECEIVED
APR 24 1997
DIV. OF OIL, GAS & MINING

13. Name & Signature: David H. Hudspeth Title: Staff Drilling Engineer Date: April 8, 1997

(This space for State use only)

(See Instructions on Reverse Side)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

**ENTITY ACTION FORM - FORM 6**

OPERATOR Anadarko Petroleum Corporation
ADDRESS 17001 Northchase Drive
Houston, Texas 77060

OPERATOR ACCT. NO. N 0035

| ACTION CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION QQ | SC | TP | RG | COUNTY | SPUD DATE | EFFECTIVE DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 99999 | 12122 | 43-007-30349 | Helper State A-1 | NW | 3 | 14S | 10E | Carbon | 04/25/97 | 04/25/97 |
| WELL 1 COMMENTS: New Entity Entity added 5-13-97. fc | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 2 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 3 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 4 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 5 COMMENTS: | | | | | | | | | | | |

ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

RECEIVED
MAY 13 1997
DIV. OF OIL, GAS & MINING

Signature
Staff Drilling Eng. 09.May.97
Title Date
Phone No. (281 874-8814

# INSTRUCTIONS

An Entity is a 5 digit identifying number assigned to wells by the Division of Oil, Gas and Mining and used primarily by the Utah State Tax Commission and the Division of State Lands and Forestry to maintain division of interest data for each well. Oil and gas production and disposition volumes are computerized and then sorted by Entity to be used by the various divisions to verify the accurate collection of taxes and royalties.

IMPORTANT: This form is used only to update the Division's computerized oil and gas production accounting system. Please review the Utah Oil and Gas Conservation General Rules to determine what other reports may be required. For help, call (801) 538-5340.

FORM SHALL BE FILED WITHIN 5 WORKING DAYS OF ANY OF THE FOLLOWING:

1. The spudding-in of a new well.
2. A change in physical operations or interests which adds a well to or removes a well from a group of wells that have identical division of interests, produce from the same formation, have product sales from a common tank, LACT meter, or gas meter, and have the same operator.
3. A change in interest which adds or deletes a well from a participating area of a properly designated unit.
4. The conversion of a service well to a producing oil or gas well.
5. The recompletion of a well which makes it capable of producing from another formation.

ACTION CODES

A - Use to establish a new Entity number for a new single well.
Show the first day hole was made by any type of rig in "Spud Date". This will be the Entity assignment effective date.

B - Use to add a new well to an existing Entity number when
(1) the well is being drilled within the boundaries of a properly designated unit (each participating area within a unit will have a different Entity number).
(2) the well is being drilled within and will be physically attached to an existing group of wells that have identical division of interests, produce from the same formation, have the same operator, and have product sales from a common tank, LACT meter, or gas meter.
Show the Entity number to which the well is to be assigned in "New Entity No." Show the first day hole was made by any type of rig in "Spud Date". This will be the Entity assignment effective date.

C - Use to re-assign an existing well from one entity number to another existing entity number when
(1) the well is physically attached to an existing group of wells, or
(2) the well is brought into the participating area of a unit, or
(3) the well is recompleted into another formation which brings the well into the participating area of a unit or a group of wells as described under code B.
Show the well's current Entity in "Current Entity No." and the Entity to which it should be re-assigned in "New Entity No." Show the date on which the re-assignment should be made in "Effective Date".

D - Use to re-assign an existing well from one Entity to a new Entity number when
(1) the well is no longer physically attached to a group of wells, or
(2) the well is still attached to a group of wells but has been sold to a different operator than for the remaining wells, or
(3) the well is no longer located within a unit or a participating area of a unit due to a change in unit boundaries, or
(4) the well is recompleted into a new formation not currently covered by an existing Entity.
Show the well's current Entity in "Current Entity No." Show the date on which the re-assignment should be made in "Effective Date".

E - Use for situations that do not fall under any of the above. Explain in "Comments".

NOTE: Multiple completion wells will have different Entity numbers assigned to each producing formation. Each formation should be handled as a separate well on this form.

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: ML 45805

# SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name:

1. Type of Well: OIL ☐ GAS ☐ OTHER: COALBED METHANE

8. Well Name and Number: Helper State A-1

2. Name of Operator: Anadarko Petroleum Corporation

9. API Well Number: 43-007-30349

3. Address and Telephone Number: 17001 Northchase Drive, Houston, TX 77060 281-874-8814

10. Field and Pool, or Wildcat: Helper CBM

4. Location of Well
Footages: 1621' FNL & 2019' FWL, NW Sec 3, T14S, R10E
QQ, Sec., T., R., M.:

County: Carbon

State: Utah

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| NOTICE OF INTENT (Submit in Duplicate) | | SUBSEQUENT REPORT (Submit Original Form Only) | |
|---|---|---|---|
| ☐ Abandonment | ☐ New Construction | ☐ Abandonment * | ☐ New Construction |
| ☐ Casing Repair | ☐ Pull or Alter Casing | ☐ Casing Repair | ☐ Pull or Alter Casing |
| ☐ Change of Plans | ☐ Recompletion | ☐ Change of Plans | ☐ Shoot or Acidize |
| ☐ Conversion to Injection | ☐ Shoot or Acidize | ☐ Conversion to Injection | ☐ Vent or Flare |
| ☐ Fracture Treat | ☐ Vent or Flare | ☐ Fracture Treat | ☐ Water Shut-Off |
| ☐ Multiple Completion | ☐ Water Shut-Off | ☐ Other | |
| ☒ Other Spud Notification | | | |
| Approximate date work will start SPUD 04/25/97, 1100 Hrs. | | Date of work completion | |

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

RECEIVED
MAY 13 1997
DIV. OF OIL, GAS & MINING

13.

Name & Signature: Dave Hudspeth Title: Staff Drilling Eng. Date: 09.May.97

(This space for State use only)

(11/93) (See Instructions on Reverse Side)

# INSTRUCTIONS

Type or print neatly in black ink.

This report form shall be used to notify the Utah Division of Oil, Gas and Mining of the intention to do miscellaneous work on any well for which a specific report form is not provided, and to report the subsequent results of that work.

**Do not use this form** for proposals to
- drill new wells,
- deepen existing wells beyond their original completion depths,
- reenter previously plugged and abandoned wells.

**Use Application for Permit to Drill or Deepen (APD) for such proposals.**

In addition to any Sundry Notice forms submitted, a **Well Completion or Recompletion Report and Log** form must be submitted to the division to report the results of the following operations:
- deepening an existing well,
- reentering a previously plugged and abandoned well,
- completing in multiple reservoirs,
- recompleting to a different reservoir,
- completing or plugging a newly drilled well.

NOTICE OF INTENT - A notice of intention to do work on a well or to change plans previously approved shall be submitted in duplicate and must be received and approved by the division before the work is commenced. The operator is responsible for receipt of the notice by the division in ample time for proper consideration and action. In cases of emergency, the operator may obtain verbal approval to commence work. Within five days after receiving verbal approval, the operator shall submit a Sundry Notice describing the work and acknowledging the verbal approval.

SUBSEQUENT REPORT - A subsequent report shall be submitted to the division within 30 days of the completion of the outlined work. Specific details of the work performed should be provided, including dates, well depths, placement of plugs, etc.

WELL ABANDONMENT - Proposals to abandon a well and subsequent reports of abandonment should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, and method of parting of any casing, liner, or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Rule reference (Oil and Gas Conservation General Rules, revised 5/1/92):
- R649-8-10

**ANADARKO PETROLEUM CORPORATION**
**WELL HISTORY**
**ONSHORE - U.S.**

**DEVELOPMENT - DRILLING**

**FIRST REPORT**
HELPER STATE A-1, HELPER PROSPECT, 1621' FNL & 2019' FWL, SEC. 3-T14S, R10E, CARBON CO, UT, AFE 15225, WI 1.000, NRI 0.875, ETD 2900 (FERRON COAL), AZTEC DRLG RIG #184

04/25 1325 (996), DRLG, MW AIR: RURT, **SPUD @ 1100 HRS 04/24/97,** 8 5/8" 24# K-55 CSG PRESET @ 316', DO CMT & FE, TOTCO @ 1197: 1 1/4°, CC 118,000. RPT #1

04/26 DRLG F/ 1325'-2770', **TD WELL @ 1530 HRS 04/25/97**, POOH TO RUN CSG, LAST SURVEY @ 2557 - 1°, AVG ROP 69 FPH, MW-AIR, CC 100,800. RPT #2

04/27 R/U HALLIBURTON-LOG WELL, R/D LOGGERS, RIH TO CONDITION-BRIDGE @ 2730', CIRC HOLE, POOH, RIH W/ 5 ½" CSG & CMT SAME, N/D BOPE, CUT/CAP CSG, **RELEASE RIG @ 2000 HRS 04/26/97,** LAST SURVEY @ 2557 - 1°, CC 180,300. ***--DROP FROM REPORT--*** RPT #3

05/06 PBTD 2707 (FERRON COAL), MIRU, NUBOP, TIH W/ BIT AND SCR, TAG PBTD @ 2707, DISPL CSG W/ HELPER PRODUCED WATER, PRESSURE TEST TO 1500-OK, CLOSE BOP, RDMO CC 185,200.

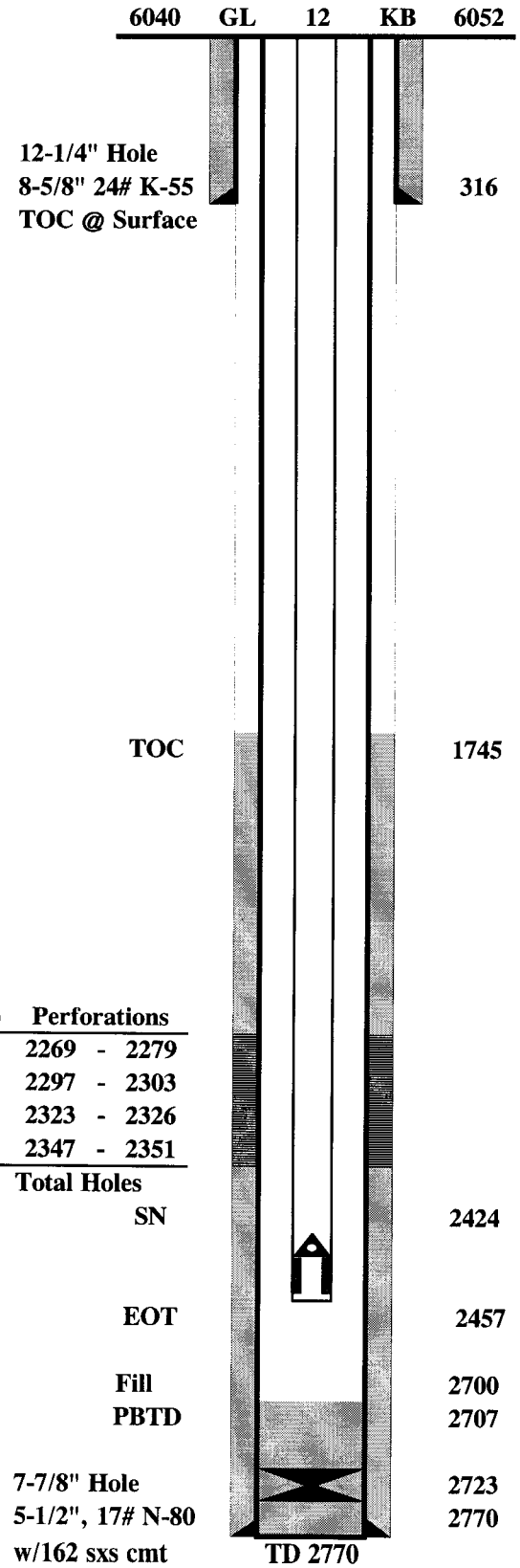
05/07-08 NO REPORT.

# HELPER STATE A-1

W 1621' FNL & 2019' FWL: SEC 3-T14S-R10E

API NO. 43-007-30349

| | SPUD | RIG OFF |
|---|---|---|
| SURFACE | 04/24/1997 | 04/26/1997 |
| PRODUCTION | 05/05/1997 | |




## WELL WORK HISTORY

| | |
|---|---|
| 05/09/1997 | Perf Ferron w/ 3 3/8 16 gram charge |
| 05/15/1997 | Frac Ferron w/ 3000 gal 20# pre pad & 50500 gal 20# Delta Frac w/ 96800# 20/40 & 99800# 16/30 |
| | ISIP 1856-1599-1560-1532 |
| 06/07/1997 | Lower Tbg below Perfs put on Production |
| 06/20/1997 | Pump Change |

| (Holes) | Perforations |
|---|---|
| (10) | 2269 - 2279 |
| (18) | 2297 - 2303 |
| (6) | 2323 - 2326 |
| (4) | 2347 - 2351 |
| (38) | Total Holes |

**NOTES:** Marker JT @ 2086, Float Collar @ 2725

**TUBING BREAKDOWN**

| | | |
|---|---|---|
| 2-3/8" | 77 | |
| TA | | JTS |
| 2-3/8" | 1 | |
| SN | 2424 | JTS |
| 2-3/8" | 1 | |
| NC | 2456 | JTS |
| EOT | 2457 | |

**ROD BREAKDOWN**

| | |
|---|---|
| PONIES | 20' |
| 1" | |
| 7/8" | 925' |
| 3/4" | 1250' |
| 1" | |
| 1.5" | 200' |
| PUMP | 2425 |
| 2"X1.5"X20' 80 ring, SL 166 | |

| DEVIATION ANGLE | |
|---|---|
| 1197 | 1.25 |
| 2557 | 1 |

| FORMATION | TOP |
|---|---|
| FERRON SANDSTONE | 2244 |
| FERRON COAL | 2272 |
| TUNUNK SHALE | 2426 |

**LAST REVISED: 07/14/1997**

**ANADARKO PETROLEUM CORPORATION**
**WELL HISTORY**
**ONSHORE - U.S.**

**DEVELOPMENT - DRILLING**

**FIRST REPORT**
HELPER STATE A-1, HELPER PROSPECT, 1621' FNL & 2019' FWL, SEC. 3-T14S, R10E, CARBON CO, UT, AFE 15225, WI 1.000, NRI 0.875, ETD 2900 (FERRON COAL), AZTEC DRLG RIG #184

04/25 1325 (996), DRLG, MW AIR: RURT, **SPUD @ 1100 HRS 04/24/97,** 8 5/8" 24# K-55 CSG PRESET @ 316', DO CMT & FE, TOTCO @ 1197: 1 1/4°, CC 118,000. RPT #1

04/26 DRLG F/ 1325'-2770', **TD WELL @ 1530 HRS 04/25/97**, POOH TO RUN CSG, LAST SURVEY @ 2557 - 1°, AVG ROP 69 FPH, MW-AIR, CC 100,800. RPT #2

04/27 R/U HALLIBURTON-LOG WELL, R/D LOGGERS, RIH TO CONDITION-BRIDGE @ 2730', CIRC HOLE, POOH, RIH W/ 5 ½" CSG & CMT SAME, N/D BOPE, CUT/CAP CSG, **RELEASE RIG @ 2000 HRS 04/26/97,** LAST SURVEY @ 2557 - 1°, CC 180,300. ***--DROP FROM REPORT--*** RPT #3

05/06 PBTD 2707 (FERRON COAL), MIRU, NUBOP, TIH W/ BIT AND SCR, TAG PBTD @ 2707, DISPL CSG W/ HELPER PRODUCED WATER, PRESSURE TEST TO 1500-OK, CLOSE BOP, RDMO CC 185,200.

05/07-08 NO REPORT.

05/09 PBTD 2713, MIRU HES, TIH W/ GR/JB, TAG PBTD @ 2713, TOH, TIH W/ GR/CCL/CBL, HELD 2000# ON CSG WHILE LOGGING FROM 2713-1400, TOC @ 1600, TOH, PRESSURE TEST BOP & CSG TO 4000 PSI, RELEASE PRESSURE, CC 185,200.

05/10 PBTD 2713 (FERRON COAL), MIRU HES, TIH & PERF FERRON W/ 3 3/8" HOLLOW STEEL CARRIER W/ 16 GRAM CHARGE, PERF 2269-2279 (10), 2297-2303 (18), 2323-2326 (6), 2347-2351 (4), 38 HOLES, SI, RDMO, CC 190,100.

05/11 PBTD 2713 (FERRON COAL), SI PREP TO FRAC, CC 190,100.

05/12 PBTD 2713 (FERRON COAL), SI PREP TO FRAC, CC 190,100. ***--DROP FROM REPORT--***

05/15 PBTD 2713 (FERRON COAL), MIRU FRAC EQUIP, NU TREESAVER & FRAC HD, FRAC 2269-2351 W/3000 GAL 20# GEL PRE-PAD & 50500 GAL 20# DELTA FRAC PLUS 96800# 20/40 SD & 99800# 16/30 SD, AIR 55 BPM, ATP 3780, TOT FLD PMPD 1744 BBLS, MAX PROP CONC 5.5 PPG, ISIP 1856-1599-1560-1532, FRAC GRAD 0.62 PSI/FT, FLOWBACK 2 HRS @ 0.25 BPM, RDMO FRAC EQUIP, ND TREESAVER & FRAC HD, CONT FLOWBACK @ 0.25 BPM, TOT FLOWBACK 6 HRS & WELL DIED, 1744 BLWTR, CC 264,200.

05/16 PBTD 2713 (FERRON COAL), NR, CC 264,200.

05/17-19 PBTD 2713 (FERRON COAL), NR, CC 264,200.

05/20 PBTD 2713 (FERRON COAL), SI, WO PU, CC 264,200. ***--DROP FROM REPORT--***

05/21 PBTD 2713 (FERRON COAL), MIRU PU, TIH W/ NC, SN & TBG, CO SAND 2602-2713, SET EOT @ 2418, IFL SURF, SWBD 20 BLW, FFL 100, SI, 1724 BLWTR, CC 272,100.

05/22 PBTD 2705 (FERRON COAL), SIT&CP 0, IFL 100, SWBD 170 BLW, SSG, FFL 900, TAG FILL @ 2705, TOH W/ TBG, TIH W/ BP, 1 JT TBG, 4' PS, SN & TBG, ND BOPE, NU WH, EOT @ 2242, SI, 1554 BLWTR, CC 279,800.

05/23 PBTD 2705 (FERRON COAL), SITP 0, SICP 25, BD CSG, TIH W/ PMP, SEAT PMP, RDMO PU, TIE IN WH W/ SEP AND FLW LINE TO PIT, START FLOW, 1554 BLWTR, CC 290,500.

05/24 PBTD 2705 (FERRON COAL), SI, 1554 BLWTR, CC 290,500.

05/25 PBTD 2705 (FERRON COAL), SI, 1554 BLWTR, CC 290,500.

05/26 PBTD 2705 (FERRON COAL), PMPD 24 HOURS, 0 MCF, 78 BW, CP 0, FL 283, 1476 BLWTR, CC 290,500.

05/27 PBTD 2705 (FERRON COAL), PMPD 24 HOURS, 0 MCF, 97 BW, CP 10, FL 346, 1379 BLWTR, CC 290,520.

05/28 PBTD 2705 (FERRON COAL), PMPD 24 HOURS, 25 MCF, 93 BW, CP 20, FL 377, 1002 BLWTR, CC 290,500.

05/29 PBTD 2705 (FERRON COAL), PMPD 24 HOURS, 31 MCF, 92 BW, CP 25, FL 441, 910 BLWTR, CC 290,500.

05/30 NO REPORT.

05/31 PBTD 2705 (FERRON COAL), PMPD 24 HRS, 52 MCF, 97 BLW, FCP 35, FL 442, 813 BLWTR, CC 290,500.

06/01 PBTD 2705 (FERRON COAL), PMPD 24 HRS, 53 MCF, 138 BLW, FCP 35, FL 473, 675 BLWTR, CC 290,500.

06/02 PBTD 2705 (FERRON COAL), PMPD 24 HRS, 57 MCF, 106 BLW, FCP 35, FL 630, 569 BLWTR, CC 290,500.

06/03 PBTD 2705 (FERRON COAL), PMPD 24 HRS, 62 MCF, 105 BLW, FCP 35, FL 630, 464 BLWTR, CC 290,500.

06/04 PBTD 2705 (FERRON COAL), PMPD 24 HRS, 67 MCF, 94 BLW, FCP 35, FL 787, 370 BLWTR, CC 290,500.

06/05 PBTD 2705 (FERRON COAL), PMPD 24 HRS, 84 MCF, 89 BLW, FCP 35, FL 849, 281 BLWTR, CC 290,500.

06/06 PBTD 2705 (FERRON COAL), PMPD 24 HRS, 94 MCF, 88 BLW, FCP 35, FL 976, 193 BLWTR, CC 290,500.

06/07 PBTD 2705 (FERRON COAL), PMPD 24 HRS, 75 MCF, 36 BLW, FCP 35, FL 1007, 157 BLWTR, CC 290,500.

06/08 PBTD 2700 (FERRON COAL), MIRU PU, TOH W/ RODS & BHP, ND WH, TAG FILL @ 2700, SET EOT @ 2461, NU WH, TIH W/ BHP & RODS, RDMO PU, 157 BLWTR, CC 292,600.

06/09 PBTD 2700 (FERRON COAL), PMPD 18 HRS, 79 MCF, 109 BLW, FCP 35, FL 849, 48 BLWTR, CC 292,600.

06/10 PBTD 2700 (FERRON COAL), PMPD 18 HRS, 87 MCF, 13 BLW, FCP 35, FL 787, 35 BLWTR, CC 292,600.

06/11 PBTD 2700 (FERRON COAL), PMPD 20 HRS, 161 MCF, 45 BW, FCP 35, FL 787, CC 292,600.

06/12 PMPD 24 HRS, 175 MCF, 42 BW, FCP 35, FL 2394, CC 292,600.

06/13 PBTD 2700, PMPD 24 HRS, 141 MCF, 80 BW, FCP 35, FL 2236, CC 292,600.

06/14 PBTD 2700, PMPD 24 HRS, 129 MCF, 77 BW, FCP 35, FL 2236, CC 292,600.

06/15 PBTD 2700, PMPD 24 HRS, 119 MCF, 75 BW, FCP 30, FL 2236, CC 292,600.

06/16 PBTD 2700, PMPD 24 HRS, 128 MCF, 32 BW, FCP 30, FL 2142, CC 292,600.

06/17 PBTD 2700, PMPD 24 HRS, 106 MCF, 40 BW, FCP 30, FL 2142, CC 292,600.

06/18 PBTD 2700, PMPD 24 HRS, 106 MCF, 58 BW, FCP 30, FL 2205, CC 292,600.

06/19 PBTD 2700, PMPD 6 HRS, 25 MCF, 12 BW, FCP 30, FL 693, CC 292,600.

06/20 PBTD 2700, PMPD 0 HRS, 0 MCF, 0 BW, FCP 0, FL 693, CC 292,600.

06/21 PBTD 2700, (FERRON COAL), PMPD 8 HRS, 0 MCF, 33 BW, FCP 0, FL 535, CC 292,600.

06/22 PBTD 2700, (FERRON COAL), PMPD 24 HRS, 67 MCF, 100 BW, FCP 0, FL 346, CC 292,600.

06/23 PBTD 2700, (FERRON COAL), PMPD 24 HRS, 82 MCF, 98 BW, FCP 409, FL 409, CC 292,600.

06/24 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 103 MCF, 97 BW, FCP 0, FL 756, CC 292,600.

06/25 PBTD 2700, (FERRON COAL), PMPD 24 HRS, 119 MCF, 85 BW, FCP30, FL 756, CC 292,600.

06/26 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 137 MCF, 97 BW, FCP 30, FL 787, SI, PUMPED 4% BORIC FLUSH, 96 BBL CHEM, 300 BW, 396 BLWTR, CC 295,600.

06/27 PBTD 2700 (FERRON COAL), PMPD 0 HRS, 0 MCF, 0 BW, FCP 0, FL 535, 396 BLWTR, CC 295,600.

06/28 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 57 MCF, 63 BW, FCP 25, FL 597, 333 BLWTR, CC 295,600.

06/29 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 58 MCF, 89 BW, FCP 35, FL 126, 244 BLWTR, CC 295,600.

06/30 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 60 MCF, 90 BW, FCP 35, FL 157, 154 BLWTR, CC 295,600.

07/01 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 76 MCF, 92 BW, FCP 45, FL 157, 62 BLWTR, CC 295,600.

07/02 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 102 MCF, 71 BW, FCP 45, FL 283, CC 295,600.

07/03 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 122 MCF, 91 BW, FCP 45, FL 441, CC 295,600.

07/04 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 145 MCF, 89 BW, FCP 45, FL 441, CC 295,600.

07/05 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 196 MCF, 89 BW, FCP 35, FL 598, CC 295,600.

07/06 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 222 MCF, 30 BW, FCP 25, FL 630, CC 295,600.

07/07 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 207 MCF, 60 BW, FCP 35, FL 630, CC 295,600.

07/08 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 232 MCF, 62 BW, FCP 25, FL 976, CC 295,600.

07/09 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 268 MCF, 87 BW, FCP 25, FL 1007, CC 295,600.

07/10 PBTD 2700 (FERRON COAL), PMPD 24 HRS, 284 MCF, 90 BW, FCP 25, FL 2236, CC 295,600.

ANADARKO PETROLEUM CORPORATION 17001 NORTHCHASE DRIVE • P.O. BOX 1330 • HOUSTON, TEXAS 77251-1330
TEL. (281) 875-1101

Anadarko

July 14, 1997

CONFIDENTIAL

Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84414-5801



RE: Helper State A-1
Sec. 3, T14S, R10E
Carbon County, Utah

Gentlemen:

Please find enclosed, in triplicate, the Well Completion Report (Form 8) for the above referenced well. Also enclosed are copies of the wellbore diagrams, drilling reports, and open hole logs.

Please hold the logs confidential for a period of two years. Should need any additional information, please contact the undersigned at (281) 873-3899.

Best Regards,

ANADARKO PETROLEUM CORPORATION

April A. Leger

April A. Leger
Sr. Engineering Technician

CC: Bureau of Land Management
Moab District Office
P.O. Box 970
Moab, Utah 84532

Bureau of Land Management
Price River Resources Area
900 North, 700 East
Price, Utah 84501

AAL
TRC
SMF Reading File

FORM 8

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.: ML 45805

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

8. FARM OR LEASE NAME: Helper State

2. NAME OF OPERATOR: Anadarko Petroleum Corporation

9. WELL NO.: A-1

3. ADDRESS OF OPERATOR: 17001 Northchase Dr., Houston, Texas 77060

10. FIELD AND POOL, OR WILDCAT: Helper CBM

4. LOCATION OF WELL *(Report location clearly and in accordance with any State requirements)*
At surface: 1621' FNL & 2019' FWL, NW Section 3, T14S
At top prod. interval reported below: Same
At total depth: Same

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JUL 15 1997
DIV. OF OIL, GAS & MINING

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 3, T14S, R10E

| 14. API NO. | DATE ISSUED | 12. COUNTY | 13. STATE |
|---|---|---|---|
| 43-007-30349 | 01-28-97 | Carbon | Utah |

| 15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (Ready to prod.) or (Plug & Abd.) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) | 19. ELEV. CASINGHEAD |
|---|---|---|---|---|
| 04/24/97 | 04/25/97 | 05/23/97 | 6040' G.L. | 6052' KB |

| 20. TOTAL DEPTH, MD & TVD | 21. PLUG, BACK T.D., MD & TVD | 22. IF MULTIPLE COMPL., HOW MANY | 23. INTERVALS DRILLED BY | ROTARY TOOLS | CABLE TOOLS |
|---|---|---|---|---|---|
| 2770' MD | 2707' | No | → | 0-2770' | |

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)
Ferron Coal (2269 - 2351) MD

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25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
High Resolution Induction/Spectrual Density Induction Dual-Spaced 7-5-97

27. Was Well Cored YES ☐ NO ☒ *(Submit analysis)*
Drill System Test YES ☐ NO ☒ *(See reverse side)*

28. CASING RECORD *(Report all strings set in well)*

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 8 5/8" K-55 | 24# | 316 | 12 1/4" | 120 sxs cmt Class H | None |
| 5 1/2" N-80 | 17# | 2770 | 7 7/8" | 162 sxs cmt Class H | None |
| | | | | | |
| | | | | | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT | SCREEN (MD) |
|---|---|---|---|---|
| | | | | |
| | | | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| 2 3/8" | 2457' | N/A |
| | | |

31. PERFORATION RECORD *(Interval, size and number)*
2269 - 2279 - 1 SPF w/ 0.6 EHD
2297 - 2303 - 3 SPF w/ 0.6 EHD
2323 - 2326 - 2 SPF w/ 0.6 EHD
2347 - 2351 - 1 SPF w/ 0.6 EHD

CONFIDENTIAL

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| 2269 - 2351 | Frac w/ 53,500 gal. 20# Delta Frac w/196,600 # SD |
| | |

33. PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD *(Flowing, gas lift, pumping - size and type of pump)* | WELL STATUS *(Producing or shut-in)* |
|---|---|---|
| 05/24/97 | Pumping | Producing |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL - BBL. | GAS - MCF. | WATER - BBL. | GAS - OIL RATIO |
|---|---|---|---|---|---|---|---|
| 05/27/97 | 24 | Open | | 0 | 25 | 93 | N/A |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL - BBL. | GAS - MCF. | WATER - BBL. | OIL GRAVITY - API (CORR.) |
|---|---|---|---|---|---|---|
| N/A | 20 | | 0 | 25 | 93 | N/A |

CONFIDENTIAL PERIOD EXPIRED ON 11-23-98

34. DISPOSITION OF GAS *(Sold, used for fuel, vented, etc.)*
Sold to Questar

TEST WITNESSED BY: Jeff Duncan

35. LIST OF ATTACHMENTS
Wellbore Diagram, drilling report, logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Shad Frazier TITLE Production Engineer DATE 07/14/97

**See Spaces for Additional Data on Reverse Side**

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachment.
ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in iten 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details for any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES:
Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries).

| Formation | Top | Bottom | Description, contents, etc. |
|---|---|---|---|
| Ferron Sand | 2244 | 2272 | |
| Ferron Coal | 2272 | 2426 | |
| Tununk Shale | 2426 | 2770 | |

38. GEOLOGIC MARKERS

| Name | Top | |
|---|---|---|
| | Meas. Depth | True Vert.Depth |
| Ferron Sandstone | 2244 | |
| Ferron Coal | 2272 | |
| Tununk Shale | 2426 | |

ANADARKO PETROLEUM CORPORATION 17001 NORTHCHASE DRIVE • P.O. BOX 1330 • HOUSTON, TEXAS 77251-1330
TEL. (713) 875-1101

Anadarko

February 5, 1997



Mr. Mike Hebertson
State of Utah
Division of Oil, Gas and Mining
1594 W. North Temple
Suite 1210
Salt Lake City, Utah 84114-5801

| RE: | Birch A-1 | Helper State A-1 | Helper State D-7 |
|---|---|---|---|
| | Sec 5-14S-10E | Sec 3-14S-10E | Sec 4-14S-10E |
| | Carbon Co., Utah | Carbon Co., Utah | Carbon Co., Utah |

Dear Mr. Hebertson:

Pursuant to our conversation, this letter is to clarify that the above listed wells are Fee and State surface. This letter as well as the BOP Schematic are being faxed to you. Since the well is being air drilled, a rotating head will be used.

As requested, the Arch report will be sent to your attention via regular mail.

Should you have any further questions, please do not hesitate to call me at 281-873-1280.

Sincerely,

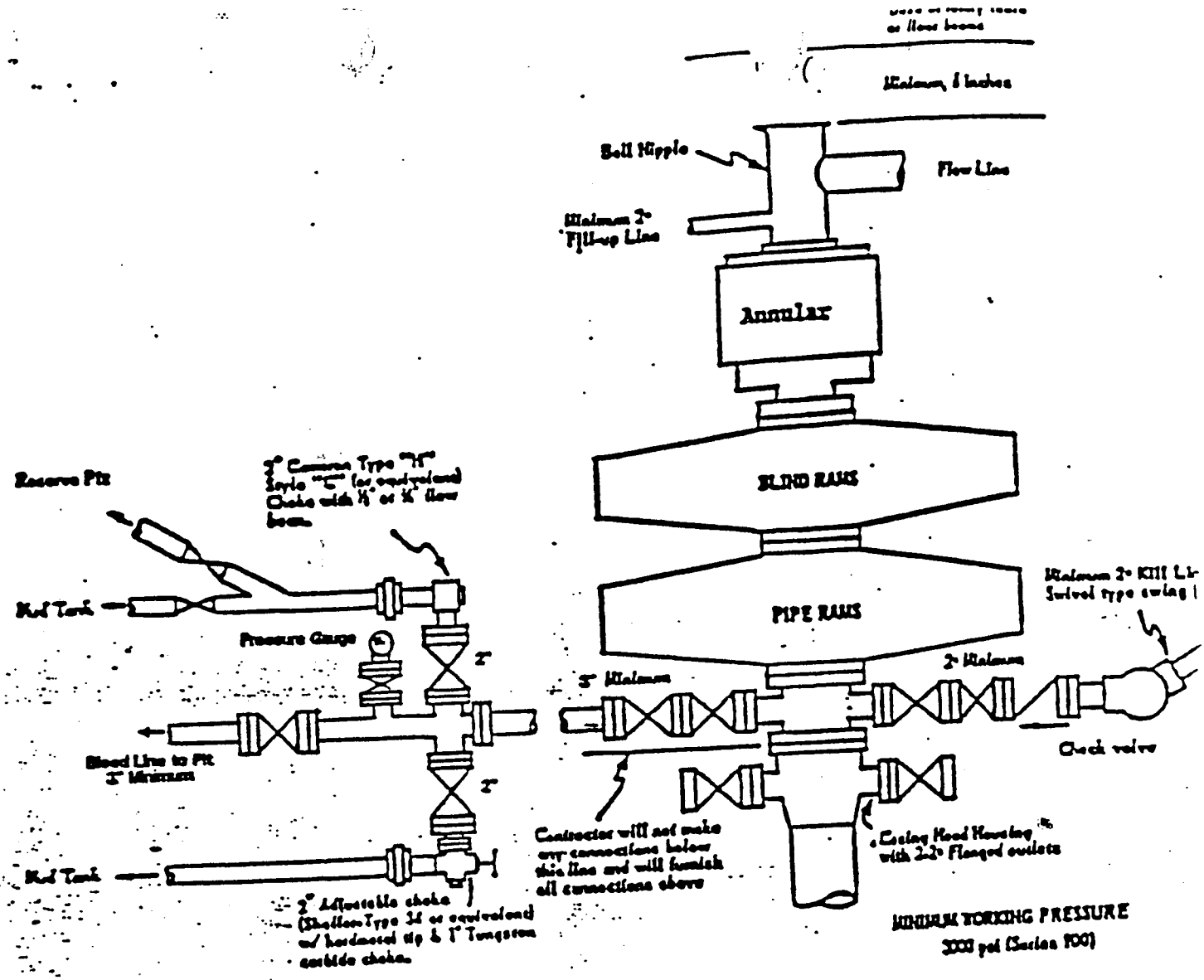
**ANADARKO PETROLEUM CORPORATION**

Dave Winchester

Dave Winchester
Division Drilling Engineer

DRW/ddg

Enclosures




Anadarko Petroleum Corporation

# EXHIBIT A

MINIMUM BLOWOUT PREVENTER REQUIREMENTS - NORMAL PRESSURE (SHALLOW) SERVICE

Division of Oil, Gas and Mining

# OPERATOR CHANGE WORKSHEET (for state use only)

**ROUTING**
CDW

**X - Change of Operator (Well Sold)** Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **4/1/2013**

| **FROM:** (Old Operator): | **TO:** ( New Operator): |
|---|---|
| N0035-Anadarko Petroleum Corporation | N3940- Anadarko E&P Onshore LLC |
| PO Box 173779 | PO Box 173779 |
| Denver, CO, 80214 | Denver, CO 802014 |
| Phone: 1 (720) 929-6000 | Phone: 1 (720) 929-6000 |

**CA No.** **Unit:**

| WELL NAME | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|---|---|---|---|---|---|---|---|---|
| See Attached List | | | | | | | | |

## OPERATOR CHANGES DOCUMENTATION

**Enter date after each listed item is completed**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/9/2013
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/9/2013
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 4/10/2013
4a. Is the new operator registered in the State of Utah: _____ Business Number: 593715-0161
5a. (R649-9-2)Waste Management Plan has been received on: Yes
5b. Inspections of LA PA state/fee well sites complete on: 4/10/2013
5c. Reports current for Production/Disposition & Sundries on: 4/10/2013
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/2/2013 BIA N/A
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 4/10/2013

## DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 4/11/2013
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 4/11/2013
3. Bond information entered in RBDMS on: 4/10/2013
4. Fee/State wells attached to bond in RBDMS on: 4/11/2013
5. Injection Projects to new operator in RBDMS on: 4/11/2013
6. Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

## BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: WYB000291
2. Indian well(s) covered by Bond Number: N/A
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 22013542
3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

## LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 4/11/2013

**COMMENTS:**

FORM 9

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: See Wells

# SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM Wells

8. WELL NAME and NUMBER:

2. NAME OF OPERATOR: Anadarko Petroleum Corporation

9. API NUMBER: See Wells

3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217

PHONE NUMBER: (720) 929-6000

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: 4/8/2013 | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☑ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☐ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☐ OTHER: |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator is requesting authorization to transfer the wells from Anadarko Petroleum Corporation and Anadarko Production Company to Anadarko E&P Onshore, LLC. Please see the attached list of 181 wells that are currently filed under Anadarko Petroleum Corporation and Anadarko Production Company. The state/fee wells will be under bond number 22013542, and the federal wells will be under bond number WYB000291.

RECEIVED

Effective 4/1/13

APR 09 2013

Please contact the undersigned if there are any questions.

DIV. OF OIL, GAS & MINING

Jaime Scharnowske
Regulatory Analyst

Anadarko Petroleum Corporation N0035
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

Jaime Scharnowske
Regulatory Analyst

Anadarko E&P Onshore, LLC N3940
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

NAME (PLEASE PRINT) Jaime Scharnowske TITLE Regulatory Analyst

SIGNATURE Jaime Scharnowske DATE 4/8/2013

(This space for State use only)

APPROVED

APR 11 2013

DIV. OIL GAS & MINING

Rachel Medina

(5/2000) (See Instructions on Reverse Side)

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1 April-2013

| Well Name | Sec | Twnshp | Range | API | Entity No. | Lease Type | Well Type | Well status |
|---|---|---|---|---|---|---|---|---|
| HELPER ST SWD 1 | 03 | 140S | 100E | 4300730361 | 12258 | State | WD | A |
| FED F-2 SWD | 08 | 140S | 100E | 4300730555 | 12557 | Federal | WD | A |
| CLAWSON SPRING ST SWD 4 | 13 | 160S | 080E | 4301530477 | 12979 | State | WD | A |
| CLAWSON SPRING ST SWD 1 | 36 | 150S | 080E | 4300730721 | 12832 | State | WD | I |
| HELPER FED B-1 | 33 | 130S | 100E | 4300730189 | 11537 | Federal | GW | P |
| HELPER FED A-1 | 23 | 130S | 100E | 4300730190 | 11517 | Federal | GW | P |
| HELPER FED A-3 | 22 | 130S | 100E | 4300730213 | 11700 | Federal | GW | P |
| HELPER FED C-1 | 22 | 130S | 100E | 4300730214 | 11702 | Federal | GW | P |
| HELPER FED B-5 | 27 | 130S | 100E | 4300730215 | 11701 | Federal | GW | P |
| HELPER FED A-2 | 22 | 130S | 100E | 4300730216 | 11699 | Federal | GW | P |
| HELPER FED D-1 | 26 | 130S | 100E | 4300730286 | 12061 | Federal | GW | P |
| BIRCH A-1 | 05 | 140S | 100E | 4300730348 | 12120 | Fee | GW | P |
| HELPER ST A-1 | 03 | 140S | 100E | 4300730349 | 12122 | State | GW | P |
| HELPER ST D-7 | 04 | 140S | 100E | 4300730350 | 12121 | State | GW | P |
| CHUBBUCK A-1 | 31 | 130S | 100E | 4300730352 | 12397 | Fee | GW | P |
| VEA A-1 | 32 | 130S | 100E | 4300730353 | 12381 | Fee | GW | P |
| VEA A-2 | 32 | 130S | 100E | 4300730354 | 12483 | Fee | GW | P |
| VEA A-3 | 32 | 130S | 100E | 4300730355 | 12398 | Fee | GW | P |
| VEA A-4 | 32 | 130S | 100E | 4300730356 | 12482 | Fee | GW | P |
| HELPER ST A-8 | 02 | 140S | 100E | 4300730357 | 12257 | State | GW | P |
| HELPER ST A-3 | 02 | 140S | 100E | 4300730358 | 12254 | State | GW | P |
| HELPER ST A-4 | 02 | 140S | 100E | 4300730359 | 12255 | State | GW | P |
| HELPER ST A-7 | 02 | 140S | 100E | 4300730360 | 12256 | State | GW | P |
| HELPER ST A-2 | 03 | 140S | 100E | 4300730362 | 12232 | State | GW | P |
| HELPER ST A-5 | 03 | 140S | 100E | 4300730363 | 12231 | State | GW | P |
| HELPER ST A-6 | 03 | 140S | 100E | 4300730364 | 12233 | State | GW | P |
| HELPER ST D-4 | 04 | 140S | 100E | 4300730365 | 12228 | State | GW | P |
| HELPER ST D-3 | 05 | 140S | 100E | 4300730366 | 12184 | State | GW | P |
| HELPER ST D-5 | 04 | 140S | 100E | 4300730367 | 12226 | State | GW | P |
| HELPER ST D-8 | 04 | 140S | 100E | 4300730368 | 12229 | State | GW | P |
| HELPER ST D-2 | 05 | 140S | 100E | 4300730369 | 12481 | State | GW | P |
| HELPER ST D-6 | 05 | 140S | 100E | 4300730370 | 12234 | State | GW | P |
| HELPER ST D-1 | 06 | 140S | 100E | 4300730371 | 12399 | State | GW | P |
| BIRCH A-2 | 08 | 140S | 100E | 4300730372 | 12189 | Fee | GW | P |
| HELPER ST A-9 | 10 | 140S | 100E | 4300730373 | 12230 | State | GW | P |
| HELPER ST B-1 | 09 | 140S | 100E | 4300730376 | 12227 | State | GW | P |
| HELPER FED F-3 | 08 | 140S | 100E | 4300730378 | 12252 | Federal | GW | P |
| HELPER FED F-4 | 09 | 140S | 100E | 4300730379 | 12253 | Federal | GW | P |
| HELPER ST A-10 | 10 | 140S | 100E | 4300730433 | 12488 | State | GW | P |
| HELPER ST A-11 | 11 | 140S | 100E | 4300730434 | 12487 | State | GW | P |
| HELPER ST A-12 | 10 | 140S | 100E | 4300730435 | 12486 | State | GW | P |
| HELPER ST A-13 | 10 | 140S | 100E | 4300730436 | 12485 | State | GW | P |
| HELPER ST B-2 | 09 | 140S | 100E | 4300730437 | 12484 | State | GW | P |
| HELPER FED E-7 | 19 | 130S | 100E | 4300730508 | 13623 | Federal | GW | P |
| HELPER FED B-2 | 33 | 130S | 100E | 4300730530 | 12619 | Federal | GW | P |
| HELPER FED B-3 | 33 | 130S | 100E | 4300730531 | 12622 | Federal | GW | P |
| HELPER FED B-4 | 33 | 130S | 100E | 4300730532 | 12623 | Federal | GW | P |
| HELPER FED B-6 | 27 | 130S | 100E | 4300730533 | 12644 | Federal | GW | P |
| HELPER FED B-7 | 27 | 130S | 100E | 4300730534 | 12645 | Federal | GW | P |
| HELPER FED B-8 | 27 | 130S | 100E | 4300730535 | 12631 | Federal | GW | P |

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective1-April-2013

| Well Name | Sec | Twnshp | Range | API | Entity No. | Lease Type | Well Type | Well status |
|---|---|---|---|---|---|---|---|---|
| HELPER FED B-9 | 34 | 130S | 100E | 4300730536 | 12646 | Federal | GW | P |
| HELPER FED B-10 | 34 | 130S | 100E | 4300730537 | 12626 | Federal | GW | P |
| HELPER FED B-11 | 34 | 130S | 100E | 4300730538 | 12628 | Federal | GW | P |
| HELPER FED B-12 | 34 | 130S | 100E | 4300730539 | 12627 | Federal | GW | P |
| HELPER FED B-13 | 28 | 130S | 100E | 4300730540 | 12621 | Federal | GW | P |
| HELPER FED B-14 | 28 | 130S | 100E | 4300730541 | 12620 | Federal | GW | P |
| HELPER FED D-2 | 26 | 130S | 100E | 4300730542 | 12650 | Federal | GW | P |
| HELPER FED D-3 | 26 | 130S | 100E | 4300730543 | 12634 | Federal | GW | P |
| HELPER FED D-4 | 35 | 130S | 100E | 4300730544 | 12625 | Federal | GW | P |
| HELPER FED D-5 | 35 | 130S | 100E | 4300730545 | 12637 | Federal | GW | P |
| HELPER FED D-6 | 35 | 130S | 100E | 4300730546 | 12635 | Federal | GW | P |
| HELPER FED E-1 | 29 | 130S | 100E | 4300730547 | 13246 | Federal | GW | P |
| HELPER FED E-2 | 29 | 130S | 100E | 4300730548 | 12636 | Federal | GW | P |
| HELPER FED H-1 | 01 | 140S | 100E | 4300730549 | 12653 | Federal | GW | P |
| HELPER FED H-2 | 01 | 140S | 100E | 4300730550 | 12647 | Federal | GW | P |
| OLIVETO FED A-2 | 08 | 140S | 100E | 4300730556 | 12630 | Federal | GW | P |
| HELPER FED F-1 | 08 | 140S | 100E | 4300730557 | 12629 | Federal | GW | P |
| SMITH FED A-1 | 09 | 140S | 100E | 4300730558 | 13004 | Federal | GW | P |
| SE INVESTMENTS A-1 | 06 | 140S | 100E | 4300730570 | 12624 | Fee | GW | P |
| HELPER ST A-14 | 11 | 140S | 100E | 4300730571 | 12612 | State | GW | P |
| HELPER ST A-15 | 11 | 140S | 100E | 4300730572 | 12613 | State | GW | P |
| HELPER ST E-1 | 36 | 130S | 100E | 4300730573 | 12615 | State | GW | P |
| HELPER ST E-2 | 36 | 130S | 100E | 4300730574 | 12614 | State | GW | P |
| HARMOND A-1 | 07 | 140S | 100E | 4300730586 | 12616 | Fee | GW | P |
| HELPER ST E-3 | 36 | 130S | 100E | 4300730592 | 12868 | State | GW | P |
| HELPER FED A-6 | 23 | 130S | 100E | 4300730593 | 12649 | Federal | GW | P |
| HELPER FED D-7 | 26 | 130S | 100E | 4300730594 | 12651 | Federal | GW | P |
| HELPER FED D-8 | 35 | 130S | 100E | 4300730595 | 12652 | Federal | GW | P |
| CLAWSON SPRING ST A-1 | 36 | 150S | 080E | 4300730597 | 12618 | State | GW | P |
| HELPER ST E-4 | 36 | 130S | 100E | 4300730598 | 12825 | State | GW | P |
| HELPER ST A-16 | 11 | 140S | 100E | 4300730603 | 12638 | State | GW | P |
| CHUBBUCK A-2 | 06 | 140S | 100E | 4300730604 | 12648 | Fee | GW | P |
| CLAWSON SPRING ST A-2 | 36 | 150S | 080E | 4300730635 | 12856 | State | GW | P |
| CLAWSON SPRING ST A-3 | 36 | 150S | 080E | 4300730636 | 13001 | State | GW | P |
| CLAWSON SPRING ST A-4 | 36 | 150S | 080E | 4300730637 | 12844 | State | GW | P |
| CLAWSON SPRING ST D-5 | 31 | 150S | 090E | 4300730642 | 12852 | State | GW | P |
| CLAWSON SPRING ST D-6 | 31 | 150S | 090E | 4300730643 | 12847 | State | GW | P |
| CLAWSON SPRING ST D-7 | 31 | 150S | 090E | 4300730644 | 12849 | State | GW | P |
| HELPER FED A-5 | 23 | 130S | 100E | 4300730677 | 13010 | Federal | GW | P |
| HELPER FED A-7 | 22 | 130S | 100E | 4300730678 | 13346 | Federal | GW | P |
| HELPER FED B-15 | 28 | 130S | 100E | 4300730679 | 13015 | Federal | GW | P |
| HELPER FED B-16 | 28 | 130S | 100E | 4300730680 | 13203 | Federal | GW | P |
| HELPER FED C-2 | 24 | 130S | 100E | 4300730681 | 13016 | Federal | GW | P |
| HELPER FED C-4 | 24 | 130S | 100E | 4300730682 | 13012 | Federal | GW | P |
| HELPER FED C-7 | 21 | 130S | 100E | 4300730684 | 13204 | Federal | GW | P |
| HELPER FED D-9 | 25 | 130S | 100E | 4300730685 | 13245 | Federal | GW | P |
| HELPER FED D-10 | 25 | 130S | 100E | 4300730686 | 12993 | Federal | GW | P |
| HELPER FED D-11 | 25 | 130S | 100E | 4300730687 | 12992 | Federal | GW | P |
| HELPER FED D-12 | 25 | 130S | 100E | 4300730688 | 13005 | Federal | GW | P |
| HELPER FED E-4 | 29 | 130S | 100E | 4300730689 | 13229 | Federal | GW | P |

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective1-April-2013

| Well Name | Sec | Twnshp | Range | API | Entity No. | Lease Type | Well Type | Well status |
|---|---|---|---|---|---|---|---|---|
| HELPER FED A-4 | 23 | 130S | 100E | 4300730692 | 13009 | Federal | GW | P |
| HELPER FED C-5 | 24 | 130S | 100E | 4300730693 | 13013 | Federal | GW | P |
| HELPER FED G-1 | 30 | 130S | 110E | 4300730694 | 13006 | Federal | GW | P |
| HELPER FED G-2 | 30 | 130S | 110E | 4300730695 | 13007 | Federal | GW | P |
| HELPER FED G-3 | 31 | 130S | 110E | 4300730696 | 13002 | Federal | GW | P |
| HELPER FED G-4 | 31 | 130S | 110E | 4300730697 | 13003 | Federal | GW | P |
| HELPER FED H-3 | 01 | 140S | 100E | 4300730698 | 12831 | Federal | GW | P |
| HELPER FED H-4 | 01 | 140S | 100E | 4300730699 | 12833 | Federal | GW | P |
| CLAWSON SPRING ST D-8 | 31 | 150S | 090E | 4300730701 | 12851 | State | GW | P |
| HELPER FED C-3 | 24 | 130S | 100E | 4300730702 | 13011 | Federal | GW | P |
| CLAWSON SPRING ST J-1 | 35 | 150S | 080E | 4300730726 | 13299 | Fee | GW | P |
| PIERUCCI 1 | 35 | 150S | 080E | 4300730727 | 13325 | Fee | GW | P |
| POTTER ETAL 1 | 35 | 150S | 080E | 4300730728 | 12958 | Fee | GW | P |
| POTTER ETAL 2 | 35 | 150S | 080E | 4300730737 | 12959 | Fee | GW | P |
| HELPER FED G-5 | 30 | 130S | 110E | 4300730770 | 13655 | Federal | GW | P |
| HELPER FED G-6 | 30 | 130S | 110E | 4300730771 | 13656 | Federal | GW | P |
| HELPER FED G-7 | 31 | 130S | 110E | 4300730772 | 13657 | Federal | GW | P |
| HELPER FED G-8 | 31 | 130S | 110E | 4300730773 | 13658 | Federal | GW | P |
| GOODALL A-1 | 06 | 140S | 110E | 4300730774 | 13348 | Fee | GW | P |
| HELPER FED E-8 | 19 | 130S | 100E | 4300730776 | 13624 | Federal | GW | P |
| HAUSKNECHT A-1 | 21 | 130S | 100E | 4300730781 | 13347 | Fee | GW | P |
| HELPER FED E-9 | 19 | 130S | 100E | 4300730868 | 13628 | Federal | GW | P |
| HELPER FED E-5 | 20 | 130S | 100E | 4300730869 | 13625 | Federal | GW | P |
| HELPER FED E-6 | 20 | 130S | 100E | 4300730870 | 13631 | Federal | GW | P |
| HELPER FED E-10 | 30 | 130S | 100E | 4300730871 | 13629 | Federal | GW | P |
| SACCOMANNO A-1 | 30 | 130S | 100E | 4300730872 | 13622 | Fee | GW | P |
| HELPER FED E-11 | 30 | 130S | 100E | 4300730873 | 13630 | Federal | GW | P |
| BLACKHAWK A-2 | 29 | 130S | 100E | 4300730886 | 13783 | Fee | GW | P |
| BLACKHAWK A-3 | 20 | 130S | 100E | 4300730914 | 13794 | Fee | GW | P |
| BLACKHAWK A-4 | 21 | 130S | 100E | 4300730915 | 13795 | Fee | GW | P |
| BLACKHAWK A-1X | 20 | 130S | 100E | 4300730923 | 13798 | Fee | GW | P |
| HELPER STATE 12-3 | 03 | 140S | 100E | 4300750070 | 17824 | State | GW | P |
| HELPER STATE 32-3 | 03 | 140S | 100E | 4300750071 | 17827 | State | GW | P |
| HELPER STATE 32-36 | 36 | 130S | 100E | 4300750072 | 17825 | State | GW | P |
| VEA 32-32 | 32 | 130S | 100E | 4300750075 | 17826 | Fee | GW | P |
| CLAWSON SPRING ST E-7 | 07 | 160S | 090E | 4301530392 | 12960 | State | GW | P |
| CLAWSON SPRING ST E-8 | 07 | 160S | 090E | 4301530394 | 12964 | State | GW | P |
| CLAWSON SPRING ST E-3 | 06 | 160S | 090E | 4301530403 | 12965 | State | GW | P |
| CLAWSON SPRING ST E-1 | 06 | 160S | 090E | 4301530404 | 12966 | State | GW | P |
| CLAWSON SPRING ST E-2 | 06 | 160S | 090E | 4301530405 | 12961 | State | GW | P |
| CLAWSON SPRING ST E-4 | 06 | 160S | 090E | 4301530406 | 12962 | State | GW | P |
| CLAWSON SPRING ST C-1 | 12 | 160S | 080E | 4301530410 | 12617 | State | GW | P |
| CLAWSON SPRING ST B-1 | 01 | 160S | 080E | 4301530427 | 12845 | State | GW | P |
| CLAWSON SPRING ST B-2 | 01 | 160S | 080E | 4301530428 | 12846 | State | GW | P |
| CLAWSON SPRING ST B-3 | 01 | 160S | 080E | 4301530429 | 12848 | State | GW | P |
| CLAWSON SPRING ST B-4 | 01 | 160S | 080E | 4301530430 | 12854 | State | GW | P |
| CLAWSON SPRING ST B-5 | 12 | 160S | 080E | 4301530431 | 12963 | State | GW | P |
| CLAWSON SPRING ST B-8 | 11 | 160S | 080E | 4301530432 | 12863 | State | GW | P |
| CLAWSON SPRING ST B-9 | 11 | 160S | 080E | 4301530433 | 12864 | State | GW | P |
| CLAWSON SPRING ST C-2 | 12 | 160S | 080E | 4301530434 | 12850 | State | GW | P |

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective1-April-2013

| Well Name | Sec | Twnshp | Range | API | Entity No. | Lease Type | Well Type | Well status |
|---|---|---|---|---|---|---|---|---|
| CLAWSON SPRING ST C-4 | 14 | 160S | 080E | 4301530435 | 13199 | State | GW | P |
| CLAWSON SPRING ST B-7 | 11 | 160S | 080E | 4301530460 | 12967 | State | GW | P |
| CLAWSON SPRING ST C-6 | 14 | 160S | 080E | 4301530461 | 13355 | State | GW | P |
| CLAWSON SPRING ST C-3 | 12 | 160S | 080E | 4301530463 | 12968 | State | GW | P |
| CLAWSON SPRING ST B-6 | 11 | 160S | 080E | 4301530465 | 12969 | State | GW | P |
| CLAWSON SPRING ST H-1 | 13 | 160S | 080E | 4301530466 | 13323 | State | GW | P |
| CLAWSON SPRING ST H-2 | 13 | 160S | 080E | 4301530467 | 12955 | State | GW | P |
| CLAWSON SPRING ST IPA-1 | 10 | 160S | 080E | 4301530468 | 12956 | Fee | GW | P |
| CLAWSON SPRING ST IPA-2 | 15 | 160S | 080E | 4301530469 | 13200 | Fee | GW | P |
| CLAWSON SPRING ST E-5 | 07 | 160S | 090E | 4301530470 | 12971 | State | GW | P |
| CLAWSON SPRING ST G-1 | 02 | 160S | 080E | 4301530471 | 13014 | State | GW | P |
| CLAWSON SPRING ST F-2 | 03 | 160S | 080E | 4301530472 | 13282 | State | GW | P |
| CLAWSON SPRING ST F-1 | 03 | 160S | 080E | 4301530473 | 13278 | State | GW | P |
| CLAWSON SPRING ST E-6 | 07 | 160S | 090E | 4301530474 | 13052 | State | GW | P |
| CLAWSON SPRING ST G-2 | 02 | 160S | 080E | 4301530475 | 12957 | State | GW | P |
| CLAWSON SPRING ST M-1 | 02 | 160S | 080E | 4301530488 | 13201 | State | GW | P |
| CLAWSON SPRING ST K-1 | 02 | 160S | 080E | 4301530489 | 13202 | State | GW | P |
| SHIMMIN TRUST 3 | 14 | 120S | 100E | 4300730119 | 11096 | Fee | GW | PA |
| SHIMMIN TRUST 1 | 11 | 120S | 100E | 4300730120 | 11096 | Fee | GW | PA |
| SHIMMIN TRUST 2 | 14 | 120S | 100E | 4300730121 | 11096 | Fee | GW | PA |
| SHIMMIN TRUST 4 | 11 | 120S | 100E | 4300730123 | 11096 | Fee | GW | PA |
| ST 9-16 | 16 | 120S | 100E | 4300730132 | 11402 | State | GW | PA |
| ST 2-16 | 16 | 120S | 100E | 4300730133 | 11399 | State | GW | PA |
| MATTS SUMMIT ST A-1 | 14 | 120S | 090E | 4300730141 | 11273 | State | GW | PA |
| SLEMAKER A-1 | 05 | 120S | 120E | 4300730158 | 11441 | Fee | GW | PA |
| JENSEN 16-10 | 10 | 120S | 100E | 4300730161 | 11403 | Fee | GW | PA |
| JENSEN 7-15 | 15 | 120S | 100E | 4300730165 | 11407 | Fee | GW | PA |
| SHIMMIN TRUST 12-12 | 12 | 120S | 100E | 4300730168 | 11420 | Fee | GW | PA |
| JENSEN 11-15 | 15 | 120S | 100E | 4300730175 | 11425 | Fee | GW | PA |
| BRYNER A-1 | 11 | 120S | 120E | 4300730188 | 11503 | Fee | GW | PA |
| BRYNER A-1X (RIG SKID) | 11 | 120S | 120E | 4300730209 | 11503 | Fee | GW | PA |
| BLACKHAWK A-1 | 20 | 130S | 100E | 4300730885 | 13798 | Fee | D | PA |
| BLACKHAWK A-5H | 20 | 130S | 100E | 4300731402 | 17029 | Fee | D | PA |
| CLAWSON SPRING ST SWD 3 | 06 | 160S | 090E | 4301530476 | 12978 | State | D | PA |
| HELPER FED C-6 | 21 | 130S | 100E | 4300730683 | 13008 | Federal | GW | S |
| UTAH 10-415 | 10 | 160S | 080E | 4301530391 | 12632 | State | GW | TA |

| | API Well Number | Well Name | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4300730189 | HELPER FED B-1 | NESW | 33 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 2 | 4300730190 | HELPER FED A-1 | C-SW | 23 | 13S | 10E | Federal | USA UTU 58434 | Producing |
| 3 | 4300730213 | HELPER FED A-3 | SESE | 22 | 13S | 10E | Federal | USA UTU 58434 | Producing |
| 4 | 4300730214 | HELPER FED C-1 | SENE | 22 | 13S | 10E | Federal | USA UTU 71391 | Producing |
| 5 | 4300730215 | HELPER FED B-5 | NENE | 27 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 6 | 4300730216 | HELPER FED A-2 | NESW | 22 | 13S | 10E | Federal | USA UTU 58434 | Producing |
| 7 | 4300730286 | HELPER FED D-1 | SWNE | 26 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 8 | 4300730378 | HELPER FED F-3 | NENE | 8 | 14S | 10E | Federal | USA UTU 65762 | Producing |
| 9 | 4300730379 | HELPER FED F-4 | NWNW | 9 | 14S | 10E | Federal | USA UTU 65762 | Producing |
| 10 | 4300730508 | HELPER FED E-7 | SESE | 19 | 13S | 10E | Federal | USA UTU 77980 | Producing |
| 11 | 4300730530 | HELPER FED B-2 | SENW | 33 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 12 | 4300730531 | HELPER FED B-3 | NESE | 33 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 13 | 4300730532 | HELPER FED B-4 | NENE | 33 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 14 | 4300730533 | HELPER FED B-6 | NENW | 27 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 15 | 4300730534 | HELPER FED B-7 | NESW | 27 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 16 | 4300730535 | HELPER FED B-8 | SESE | 27 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 17 | 4300730536 | HELPER FED B-9 | SENW | 34 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 18 | 4300730537 | HELPER FED B-10 | NWNE | 34 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 19 | 4300730538 | HELPER FED B-11 | SESW | 34 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 20 | 4300730539 | HELPER FED B-12 | NESE | 34 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 21 | 4300730540 | HELPER FED B-13 | SWSE | 28 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 22 | 4300730541 | HELPER FED B-14 | SWSW | 28 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 23 | 4300730542 | HELPER FED D-2 | SWNW | 26 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 24 | 4300730543 | HELPER FED D-3 | SESW | 26 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 25 | 4300730544 | HELPER FED D-4 | NWNW | 35 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 26 | 4300730545 | HELPER FED D-5 | SESW | 35 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 27 | 4300730546 | HELPER FED D-6 | NWSE | 35 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 28 | 4300730547 | HELPER FED E-1 | NESE | 29 | 13S | 10E | Federal | USA UTU 71675 | Producing |
| 29 | 4300730548 | HELPER FED E-2 | SESW | 29 | 13S | 10E | Federal | USA UTU 71675 | Producing |
| 30 | 4300730549 | HELPER FED H-1 | NENW | 1 | 14S | 10E | Federal | USA UTU 72352 | Producing |
| 31 | 4300730550 | HELPER FED H-2 | SESW | 1 | 14S | 10E | Federal | USA UTU 72352 | Producing |
| 32 | 4300730556 | OLIVETO FED A-2 | NESW | 8 | 14S | 10E | Federal | USA UTU 65762 | Producing |
| 33 | 4300730557 | HELPER FED F-1 | SESE | 8 | 14S | 10E | Federal | USA UTU 65762 | Producing |
| 34 | 4300730558 | SMITH FED A-1 | NWSW | 9 | 14S | 10E | Federal | USA UTU 65762 | Producing |
| 35 | 4300730593 | HELPER FED A-6 | SESE | 23 | 13S | 10E | Federal | USA UTU 58434 | Producing |
| 36 | 4300730594 | HELPER FED D-7 | C-SE | 26 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 37 | 4300730595 | HELPER FED D-8 | NENE | 35 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 38 | 4300730677 | HELPER FED A-5 | NENE | 23 | 13S | 10E | Federal | USA UTU 58434 | Producing |
| 39 | 4300730678 | HELPER FED A-7 | SENW | 22 | 13S | 10E | Federal | USA UTU 58434 | Producing |
| 40 | 4300730679 | HELPER FED B-15 | SENE | 28 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 41 | 4300730680 | HELPER FED B-16 | SWNW | 28 | 13S | 10E | Federal | USA UTU 71392 | Producing |
| 42 | 4300730681 | HELPER FED C-2 | NENW | 24 | 13S | 10E | Federal | USA UTU 71391 | Producing |

| | API Well Number | Well Name | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status |
|---|---|---|---|---|---|---|---|---|---|
| 43 | 4300730682 | HELPER FED C-4 | NWSW | 24 | 13S | 10E | Federal | USA UTU 71391 | Producing |
| 44 | 4300730683 | HELPER FED C-6 | SWSE | 21 | 13S | 10E | Federal | USA UTU 71391 | Shut-In |
| 45 | 4300730684 | HELPER FED C-7 | SESW | 21 | 13S | 10E | Federal | USA UTU 71391 | Producing |
| 46 | 4300730685 | HELPER FED D-9 | NWNW | 25 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 47 | 4300730686 | HELPER FED D-10 | SENE | 25 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 48 | 4300730687 | HELPER FED D-11 | SESW | 25 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 49 | 4300730688 | HELPER FED D-12 | SESE | 25 | 13S | 10E | Federal | USA UTU 68315 | Producing |
| 50 | 4300730689 | HELPER FED E-4 | NWNE | 29 | 13S | 10E | Federal | USA UTU 71675 | Producing |
| 51 | 4300730692 | HELPER FED A-4 | SWNW | 23 | 13S | 10E | Federal | USA UTU 58434 | Producing |
| 52 | 4300730693 | HELPER FED C-5 | SWNE | 24 | 13S | 10E | Federal | USA UTU 71391 | Producing |
| 53 | 4300730694 | HELPER FED G-1 | C-NW | 30 | 13S | 11E | Federal | USA UTU 71677 | Producing |
| 54 | 4300730695 | HELPER FED G-2 | SWSW | 30 | 13S | 11E | Federal | USA UTU 71677 | Producing |
| 55 | 4300730696 | HELPER FED G-3 | SENW | 31 | 13S | 11E | Federal | USA UTU 71677 | Producing |
| 56 | 4300730697 | HELPER FED G-4 | SESW | 31 | 13S | 11E | Federal | USA UTU 71677 | Producing |
| 57 | 4300730698 | HELPER FED H-3 | SWNE | 1 | 14S | 10E | Federal | USA UTU 72352 | Producing |
| 58 | 4300730699 | HELPER FED H-4 | NESE | 1 | 14S | 10E | Federal | USA UTU 72352 | Producing |
| 59 | 4300730702 | HELPER FED C-3 | SESW | 24 | 13S | 10E | Federal | USA UTU 71391 | Producing |
| 60 | 4300730770 | HELPER FED G-5 | SWNE | 30 | 13S | 11E | Federal | USA UTU 71677 | Producing |
| 61 | 4300730771 | HELPER FED G-6 | SWSE | 30 | 13S | 11E | Federal | USA UTU 71677 | Producing |
| 62 | 4300730772 | HELPER FED G-7 | NWNE | 31 | 13S | 11E | Federal | USA UTU 71677 | Producing |
| 63 | 4300730773 | HELPER FED G-8 | NESE | 31 | 13S | 11E | Federal | USA UTU 71677 | Producing |
| 64 | 4300730776 | HELPER FED E-8 | SENE | 19 | 13S | 10E | Federal | USA UTU 77980 | Producing |
| 65 | 4300730868 | HELPER FED E-9 | SESW | 19 | 13S | 10E | Federal | USA UTU 77980 | Producing |
| 66 | 4300730869 | HELPER FED E-5 | SWSW | 20 | 13S | 10E | Federal | USA UTU 71675 | Producing |
| 67 | 4300730870 | HELPER FED E-6 | SWNW | 20 | 13S | 10E | Federal | USA UTU 71675 | Producing |
| 68 | 4300730871 | HELPER FED E-10 | NENW | 30 | 13S | 10E | Federal | USA UTU 71675 | Producing |
| 69 | 4300730873 | HELPER FED E-11 | NWNE | 30 | 13S | 10E | Federal | USA UTU 71675 | Producing |
| 70 | 4300730119 | SHIMMIN TRUST 3 | SENW | 14 | 12S | 10E | Fee (Private) | | Plugged and Abandoned |
| 71 | 4300730120 | SHIMMIN TRUST 1 | SESE | 11 | 12S | 10E | Fee (Private) | | Plugged and Abandoned |
| 72 | 4300730121 | SHIMMIN TRUST 2 | SENE | 14 | 12S | 10E | Fee (Private) | | Plugged and Abandoned |
| 73 | 4300730123 | SHIMMIN TRUST 4 | SESW | 11 | 12S | 10E | Fee (Private) | | Plugged and Abandoned |
| 74 | 4300730158 | SLEMAKER A-1 | SWNE | 5 | 12S | 12E | Fee (Private) | | Plugged and Abandoned |
| 75 | 4300730161 | JENSEN 16-10 | SESE | 10 | 12S | 10E | Fee (Private) | | Plugged and Abandoned |
| 76 | 4300730165 | JENSEN 7-15 | SWNE | 15 | 12S | 10E | Fee (Private) | | Plugged and Abandoned |
| 77 | 4300730168 | SHIMMIN TRUST 12-12 | NWSW | 12 | 12S | 10E | Fee (Private) | | Plugged and Abandoned |
| 78 | 4300730175 | JENSEN 11-15 | NESW | 15 | 12S | 10E | Fee (Private) | | Plugged and Abandoned |
| 79 | 4300730188 | BRYNER A-1 | NESE | 11 | 12S | 12E | Fee (Private) | | Plugged and Abandoned |
| 80 | 4300730209 | BRYNER A-1X (RIG SKID) | NESE | 11 | 12S | 12E | Fee (Private) | | Plugged and Abandoned |
| 81 | 4300730348 | BIRCH A-1 | NWSW | 5 | 14S | 10E | Fee (Private) | | Producing |
| 82 | 4300730352 | CHUBBUCK A-1 | NESE | 31 | 13S | 10E | Fee (Private) | | Producing |
| 83 | 4300730353 | VEA A-1 | SWNW | 32 | 13S | 10E | Fee (Private) | | Producing |
| 84 | 4300730354 | VEA A-2 | NENE | 32 | 13S | 10E | Fee (Private) | | Producing |

| | API Well Number | Well Name | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status |
|---|---|---|---|---|---|---|---|---|---|
| 85 | 4300730355 | VEA A-3 | SESW | 32 | 13S | 10E | Fee (Private) | | Producing |
| 86 | 4300730356 | VEA A-4 | NWSE | 32 | 13S | 10E | Fee (Private) | | Producing |
| 87 | 4300730372 | BIRCH A-2 | NWNW | 8 | 14S | 10E | Fee (Private) | | Producing |
| 88 | 4300730570 | SE INVESTMENTS A-1 | NESE | 6 | 14S | 10E | Fee (Private) | | Producing |
| 89 | 4300730586 | HARMOND A-1 | SENE | 7 | 14S | 10E | Fee (Private) | | Producing |
| 90 | 4300730604 | CHUBBUCK A-2 | SENW | 6 | 14S | 10E | Fee (Private) | | Producing |
| 91 | 4300730726 | CLAWSON SPRING ST J-1 | SESW | 35 | 15S | 8E | Fee (Private) | | Producing |
| 92 | 4300730727 | PIERUCCI 1 | SENW | 35 | 15S | 8E | Fee (Private) | | Producing |
| 93 | 4300730728 | POTTER ETAL 1 | SWNE | 35 | 15S | 8E | Fee (Private) | | Producing |
| 94 | 4300730737 | POTTER ETAL 2 | NESE | 35 | 15S | 8E | Fee (Private) | | Producing |
| 95 | 4300730774 | GOODALL A-1 | NWSW | 6 | 14S | 11E | Fee (Private) | | Producing |
| 96 | 4300730781 | HAUSKNECHT A-1 | SWNW | 21 | 13S | 10E | Fee (Private) | | Producing |
| 97 | 4300730872 | SACCOMANNO A-1 | NESE | 30 | 13S | 10E | Fee (Private) | | Producing |
| 98 | 4300730885 | BLACKHAWK A-1 | SESE | 20 | 13S | 10E | Fee (Private) | | Plugged and Abandoned |
| 99 | 4300730886 | BLACKHAWK A-2 | NWNW | 29 | 13S | 10E | Fee (Private) | | Producing |
| 100 | 4300730914 | BLACKHAWK A-3 | SENE | 20 | 13S | 10E | Fee (Private) | | Producing |
| 101 | 4300730915 | BLACKHAWK A-4 | NENE | 21 | 13S | 10E | Fee (Private) | | Producing |
| 102 | 4300730923 | BLACKHAWK A-1X | SESE | 20 | 13S | 10E | Fee (Private) | | Producing |
| 103 | 4300731402 | BLACKHAWK A-5H | NENE | 20 | 13S | 10E | Fee (Private) | | Plugged and Abandoned |
| 104 | 4300750075 | VEA 32-32 | SWNE | 32 | 13S | 10E | Fee (Private) | | Producing |
| 105 | 4301530468 | CLAWSON SPRING ST IPA-1 | SESE | 10 | 16S | 8E | Fee (Private) | | Producing |
| 106 | 4301530469 | CLAWSON SPRING ST IPA-2 | NENE | 15 | 16S | 8E | Fee (Private) | | Producing |
| 107 | 4300730132 | ST 9-16 | NESE | 16 | 12S | 10E | State | ML-44443 | Plugged and Abandoned |
| 108 | 4300730133 | ST 2-16 | NWNE | 16 | 12S | 10E | State | ML-44443 | Plugged and Abandoned |
| 109 | 4300730141 | MATTS SUMMIT ST A-1 | NWNW | 14 | 12S | 9E | State | ML-44496 | Plugged and Abandoned |
| 110 | 4300730349 | HELPER ST A-1 | SENW | 3 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 111 | 4300730350 | HELPER ST D-7 | NWSW | 4 | 14S | 10E | State | ST UT ML 45804 | Producing |
| 112 | 4300730357 | HELPER ST A-8 | NWSE | 2 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 113 | 4300730358 | HELPER ST A-3 | NWNW | 2 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 114 | 4300730359 | HELPER ST A-4 | NWNE | 2 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 115 | 4300730360 | HELPER ST A-7 | NESW | 2 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 116 | 4300730362 | HELPER ST A-2 | NENE | 3 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 117 | 4300730363 | HELPER ST A-5 | NESW | 3 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 118 | 4300730364 | HELPER ST A-6 | NESE | 3 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 119 | 4300730365 | HELPER ST D-4 | SWNW | 4 | 14S | 10E | State | ST UT ML 45804 | Producing |
| 120 | 4300730366 | HELPER ST D-3 | NENE | 5 | 14S | 10E | State | ST UT ML 45804 | Producing |
| 121 | 4300730367 | HELPER ST D-5 | NWNE | 4 | 14S | 10E | State | ST UT ML 45804 | Producing |
| 122 | 4300730368 | HELPER ST D-8 | SESE | 4 | 14S | 10E | State | ST UT ML 45804 | Producing |
| 123 | 4300730369 | HELPER ST D-2 | NENW | 5 | 14S | 10E | State | ST UT ML 45804 | Producing |
| 124 | 4300730370 | HELPER ST D-6 | SESE | 5 | 14S | 10E | State | ST UT ML 45804 | Producing |
| 125 | 4300730371 | HELPER ST D-1 | NENE | 6 | 14S | 10E | State | ST UT ML 45804 | Producing |
| 126 | 4300730373 | HELPER ST A-9 | SENW | 10 | 14S | 10E | State | ST UT ML 45805 | Producing |

| | API Well Number | Well Name | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status |
|---|---|---|---|---|---|---|---|---|---|
| 127 | 4300730376 | HELPER ST B-1 | SWNE | 9 | 14S | 10E | State | ST UT ML 47556 | Producing |
| 128 | 4300730433 | HELPER ST A-10 | NWNE | 10 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 129 | 4300730434 | HELPER ST A-11 | SWNW | 11 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 130 | 4300730435 | HELPER ST A-12 | NWSW | 10 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 131 | 4300730436 | HELPER ST A-13 | NESE | 10 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 132 | 4300730437 | HELPER ST B-2 | NESE | 9 | 14S | 10E | State | ST UT ML 47556 | Producing |
| 133 | 4300730571 | HELPER ST A-14 | SESW | 11 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 134 | 4300730572 | HELPER ST A-15 | SENE | 11 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 135 | 4300730573 | HELPER ST E-1 | SESW | 36 | 13S | 10E | State | ST UT ML 45802 | Producing |
| 136 | 4300730574 | HELPER ST E-2 | SWNW | 36 | 13S | 10E | State | ST UT ML 45802 | Producing |
| 137 | 4300730592 | HELPER ST E-3 | NENE | 36 | 13S | 10E | State | ST UT ML 45802 | Producing |
| 138 | 4300730597 | CLAWSON SPRING ST A-1 | SWSE | 36 | 15S | 8E | State | ST UT ML 46106 | Producing |
| 139 | 4300730598 | HELPER ST E-4 | SWSE | 36 | 13S | 10E | State | ST UT ML 45802 | Producing |
| 140 | 4300730603 | HELPER ST A-16 | SWSE | 11 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 141 | 4300730635 | CLAWSON SPRING ST A-2 | NWNW | 36 | 15S | 8E | State | ST UT ML 46106 | Producing |
| 142 | 4300730636 | CLAWSON SPRING ST A-3 | NESW | 36 | 15S | 8E | State | ST UT ML 46106 | Producing |
| 143 | 4300730637 | CLAWSON SPRING ST A-4 | NWNE | 36 | 15S | 8E | State | ST UT ML 46106 | Producing |
| 144 | 4300730642 | CLAWSON SPRING ST D-5 | NENW | 31 | 15S | 9E | State | ML-48226 | Producing |
| 145 | 4300730643 | CLAWSON SPRING ST D-6 | SWSW | 31 | 15S | 9E | State | ML-48226 | Producing |
| 146 | 4300730644 | CLAWSON SPRING ST D-7 | NWNE | 31 | 15S | 9E | State | ML-48226 | Producing |
| 147 | 4300730701 | CLAWSON SPRING ST D-8 | NWSE | 31 | 15S | 9E | State | ML-48226 | Producing |
| 148 | 4300750070 | HELPER STATE 12-3 | SWNW | 3 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 149 | 4300750071 | HELPER STATE 32-3 | SWNE | 3 | 14S | 10E | State | ST UT ML 45805 | Producing |
| 150 | 4300750072 | HELPER STATE 32-36 | SWNE | 36 | 13S | 10E | State | ST UT ML 45802 | Producing |
| 151 | 4301530391 | UTAH 10-415 | NENE | 10 | 16S | 8E | State | ST UT ML 48189 | Temporarily-Abandoned |
| 152 | 4301530392 | CLAWSON SPRING ST E-7 | SENE | 7 | 16S | 9E | State | ST UT ML 48220-A | Producing |
| 153 | 4301530394 | CLAWSON SPRING ST E-8 | SWSE | 7 | 16S | 9E | State | ST UT ML 48220-A | Producing |
| 154 | 4301530403 | CLAWSON SPRING ST E-3 | SENE | 6 | 16S | 9E | State | ST UT ML 48220-A | Producing |
| 155 | 4301530404 | CLAWSON SPRING ST E-1 | SENW | 6 | 16S | 9E | State | ST UT ML 48220-A | Producing |
| 156 | 4301530405 | CLAWSON SPRING ST E-2 | NESW | 6 | 16S | 9E | State | ST UT ML 48220-A | Producing |
| 157 | 4301530406 | CLAWSON SPRING ST E-4 | NWSE | 6 | 16S | 9E | State | ST UT ML 48220-A | Producing |
| 158 | 4301530410 | CLAWSON SPRING ST C-1 | SWNW | 12 | 16S | 8E | State | ST UT UO 48209 | Producing |
| 159 | 4301530427 | CLAWSON SPRING ST B-1 | NENW | 1 | 16S | 8E | State | ST UT ML 48216 | Producing |
| 160 | 4301530428 | CLAWSON SPRING ST B-2 | NWSW | 1 | 16S | 8E | State | ST UT ML 48216 | Producing |
| 161 | 4301530429 | CLAWSON SPRING ST B-3 | NWNE | 1 | 16S | 8E | State | ST UT ML 48216 | Producing |
| 162 | 4301530430 | CLAWSON SPRING ST B-4 | SESE | 1 | 16S | 8E | State | ST UT ML 48216 | Producing |
| 163 | 4301530431 | CLAWSON SPRING ST B-5 | SWSW | 12 | 16S | 8E | State | ST UT ML 48216 | Producing |
| 164 | 4301530432 | CLAWSON SPRING ST B-8 | SENE | 11 | 16S | 8E | State | ST UT ML 48216 | Producing |
| 165 | 4301530433 | CLAWSON SPRING ST B-9 | NWSE | 11 | 16S | 8E | State | ST UT ML 48216 | Producing |
| 166 | 4301530434 | CLAWSON SPRING ST C-2 | SENE | 12 | 16S | 8E | State | ST UT UO 48209 | Producing |
| 167 | 4301530435 | CLAWSON SPRING ST C-4 | SWNW | 14 | 16S | 8E | State | ST UT UO 48209 | Producing |
| 168 | 4301530460 | CLAWSON SPRING ST B-7 | NWSW | 11 | 16S | 8E | State | ST UT ML 48216 | Producing |

| | API Well Number | Well Name | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status |
|---|---|---|---|---|---|---|---|---|---|
| 169 | 4301530461 | CLAWSON SPRING ST C-6 | SENE | 14 | 16S | 8E | State | ST UT UO 48209 | Producing |
| 170 | 4301530463 | CLAWSON SPRING ST C-3 | C-SE | 12 | 16S | 8E | State | ST UT UO 48209 | Producing |
| 171 | 4301530465 | CLAWSON SPRING ST B-6 | NENW | 11 | 16S | 8E | State | ST UT ML 48216 | Producing |
| 172 | 4301530466 | CLAWSON SPRING ST H-1 | NENW | 13 | 16S | 8E | State | ST UT ML 48217-A | Producing |
| 173 | 4301530467 | CLAWSON SPRING ST H-2 | NENE | 13 | 16S | 8E | State | ST UT ML 48217-A | Producing |
| 174 | 4301530470 | CLAWSON SPRING ST E-5 | NENW | 7 | 16S | 9E | State | ST UT ML 48220-A | Producing |
| 175 | 4301530471 | CLAWSON SPRING ST G-1 | NWNW | 2 | 16S | 8E | State | ST UT ML 46314 | Producing |
| 176 | 4301530472 | CLAWSON SPRING ST F-2 | NESE | 3 | 16S | 8E | State | ST UT ML 48515 | Producing |
| 177 | 4301530473 | CLAWSON SPRING ST F-1 | SENE | 3 | 16S | 8E | State | ST UT ML 48514 | Producing |
| 178 | 4301530474 | CLAWSON SPRING ST E-6 | SESW | 7 | 16S | 9E | State | ST UT ML 48220-A | Producing |
| 179 | 4301530475 | CLAWSON SPRING ST G-2 | NESW | 2 | 16S | 8E | State | ST UT ML 46314 | Producing |
| 180 | 4301530488 | CLAWSON SPRING ST M-1 | NWNE | 2 | 16S | 8E | State | ST UT ML 47561 | Producing |
| 181 | 4301530489 | CLAWSON SPRING ST K-1 | SESE | 2 | 16S | 8E | State | ST UT ML 46043 | Producing |